San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

JUN 17 2016

Mr. Dan Martin
E & J Gallo Winery
18000 W River Rd
Livingston, CA 95334

Re: Proposed ATC / Certificate of Conformity (Significant Mod)
District Facility # N-1237
Project # 1142303

Dear Mr. Martin:

Enclosed for your review is the District's analysis of an application for Authorities to Construct for the facility identified above. You requested that Certificates of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. This project authorizes the modification of 178 wine fermentation and storage tanks to establish a combined annual volatile organic compound (VOC) emission limit.

After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the Authorities to Construct with Certificates of Conformity. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice. Prior to operating with modifications authorized by the Authorities to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Errol Villegas, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,

Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Tung Le, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via email

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San Joaquin Valley Air Pollution Control District
Authority to Construct
Application Review

Establishing an SLC for 178 Winery Fermentation and Storage Tanks

Facility Name:	E & J Gallo Winery	Date:	June 16, 2016
Mailing Address:	18000 W. River Road	Engineer:	Dustin Brown
	Livingston, CA 95334	Lead Engineer:	Nick Peirce
Contact Person:	Dan Martin		
Telephone:	(209) 394-6211		
Email:	dan.martin@ejgallo.com		
Application #'s:	N-1237-490-2 through '-497-2, '-498-3 through '-565-3, '-568-1, '-569-1, '-609-1 through '-669-1, '-697-1 through '-724-1, and '-764-1 through '-775-1		
Project #:	N-1142303		
Deemed Complete:	April 7, 2016		

I. PROPOSAL

E & J Gallo Winery has requested Authority to Construct (ATC) permits to modify 178 winery fermentation and storage tanks to establish a combined specific limiting condition (SLC) for VOC emissions (current Permits to Operate included in Appendix A). For the purposes of this project, the 178 tanks within this project will be described as being part of E & J Gallo Winery Livingston 2012-2016 Eastside Cellar tank grouping.

Thirty-four of the winery tanks being modified in this project were permitted as new tanks under ATC projects N-1132991 (ATCs N-1237-697 through '-700, '703, '704, '-707, '-708 and '-711 through '-716), N-1133659 (ATCs N-1237-717 through '-724), and N-1143437 (ATCs N-1237-764 through '-775) and have not been fully constructed and implemented as of the date of this document. Pursuant to information provided by E & J Gallo Winery for this project, each of the referenced tanks will be constructed and the ATCs will be implemented prior to or concurrently with the ATC permits issued in this project. Therefore, the following sample condition will be listed on each of these ATC permits to assure continued compliance:

- Authority to Construct (ATC) N-1237-xxx-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]

E & J Gallo Winery received their Title V Permit for this stationary source on June 27, 2000. This modification can be classified as a Title V significant modification pursuant to Rule 2520, Sections 3.20 and 3.29, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authorities to Construct. E & J Gallo Winery must apply to administratively amend their Title V Operating Permit to include the requirements of the ATC's issued with this project.

II. APPLICABLE RULES

District Rule 2201 New and Modified Stationary Source Review Rule (2/18/16)
District Rule 2520 Federally Mandated Operating Permits (6/21/01)
District Rule 4001 New Source Performance Standards (4/14/99)
District Rule 4002 National Emissions Standards for Hazardous Air Pollutants (5/20/04)
District Rule 4101 Visible Emissions (2/17/05)
District Rule 4102 Nuisance (12/17/92)
District Rule 4623 Storage of Organic Liquids (5/19/05)
District Rule 4694 Wine Fermentation and Storage Tanks (12/15/05)
California Health and Safety Code Section 41700 (Health Risk Assessment)
California Health & Safety Code Section 42301.6 (School Notice)
Public Resources Code 21000-21177 California Environmental Quality Act (CEQA)
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA Guidelines

III. PROJECT LOCATION

This facility is located at 18000 W. River Road in Livingston, CA.

The District has verified that the equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. PROCESS DESCRIPTION

E & J Gallo Winery produces both red and white table wines, as well as other specialty wine products, from the fermentation of grapes. During the "crush season", typically from late August to late November, both red and white grapes are received by truck and delivered to a crusher-stemmer which serves to crush the grapes and remove the stems. In the case of red wines, the resultant juice (termed "must" and containing the grape skins, pulp and seeds) is pumped to red wine fermentation tanks for fermentation, a batch process. The red wine fermentation tanks are specifically designed to ferment the must in contact with the skins and to allow the separation of the skins and seeds from the wine after fermentation. In the case of white wines, the must is first sent to screens and presses for separation of grape skins and seeds prior to fermentation. After separation of the skins and seeds, the white must is transferred to a fermentation tank. White wine fermentation can be carried out in a tank without design provisions for solids separation since the skins and seeds have already been separated.

After transfer of the must (red or white) to the fermentation tank, the must is inoculated with yeast which initiates the fermentation reactions. During fermentation, the yeast metabolizes the sugar in the grape juice, converting it to ethanol and carbon dioxide and releasing heat. Although fermentation temperatures vary widely depending upon the specific quality and style of the wine, temperature is typically controlled to maintain a temperature of 45-65° F for white wine fermentation and 70-95° F for red wine fermentation. The sugar content of the fermentation mass is measured in °Brix (weight %) and is typically 22-26° for unfermented grape juice, dropping to 4° or less for the end of fermentation. Finished ethanol concentration is approximately 10 to 14 percent by volume. Batch fermentation requires 3-5 days per batch for red wine and 1-2 weeks per batch for white wine. VOCs are emitted during the fermentation process along with the CO_2. The VOCs consist primarily of ethanol along with minor fermentation byproducts.

Following the completion of fermentation, white wine is transferred directly to storage tanks. Red wine is first directed to the presses for separation of solids and then routed to the storage tanks. All tanks in the winery typically operate as two separate emissions units; 1) a fermentation operation during which the tank is vented directly to the atmosphere to release the evolved CO_2 byproduct from the fermentation reaction; and 2) a storage operation where the tank is closed to minimize contact with air and the contents is often refrigerated. Post-fermentation operations are conducted in the tanks including cold stabilization, racking, filtration, etc which result in a number of inter-tank transfers of the wine during this period leading up to the bottling or bulk shipment of the finished product. Storage operations are conducted year-round. VOC emissions occur primarily as a result of the inter-tank wine transfers which occur during the post fermentation operations.

V. EQUIPMENT LISTING

Pre-Project Equipment Descriptions:

E & J Gallo Winery is proposing to modify 178 winery tanks that are authorized to be utilized for wine fermentation operations and/or wine storage operations. A summary of the equipment descriptions for each of the 178 winery tanks can be found in Appendix B.

Proposed Modifications:

Modify 178 winery fermentation and storage tanks to establish a bubble specific limiting condition (SLC) for VOC emissions between all of the tanks to allow more operational flexibility at their facility. A sample ATC equipment description for each service type of tank in this project is shown below:

Wine Storage Tank Only:

N-1237-490-2: MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 311) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

White Wine Fermentation and Wine Storage Tank:

N-1237-645-1: MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2117) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

Red and White Wine Fermentation and Wine Storage Tank:

N-1237-498-3: MODIFICATION OF 35,000 GALLON NOMINAL (35,621 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 351) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

Post Project Equipment Descriptions:

The proposed project will not result in any physical changes to the winery tanks or equipment located at this winery. However, in accordance with current District practice, the wine fermentation and storage tanks should list both the nominal and gauge volumes. The current permits for units N-1237-498 through '-568 and '-645 through '-660 only list the gauge volume of each tank in the equipment. Therefore, the post project equipment descriptions will be modified to include both the nominal and gauge ratings of each tank. The post project equipment descriptions for all other tanks will be equivalent to the pre-project equipment descriptions. The equipment descriptions are summarized in Appendix B.

VI. EMISSION CONTROL TECHNOLOGY EVALUATION

Wine Fermentation:

The temperature of the fermentation is controlled to maintain an average fermentation temperature not exceeding 95 °F which avoids higher temperatures that might be damaging to the yeast cells and reduces the potential for an out-of-control fermentation reaction in the tank. Temperature control serves to minimize VOC emissions relative to a tank without temperature control since the potential emissions increase with fermentation temperature.

Wine Storage:

VOCs (ethanol) are emitted from wine storage tanks as a result of both working losses (which occur when the liquid level in the tank changes) and breathing losses (expansion and contraction effects due to temperature variations). The proposed pressure/vacuum valve limits these emissions by requiring the maximum amount of variation in tank pressure before allowing the tank to vent to the atmosphere or allowing air admission to the tank. When wine storage tanks are insulated or located in a climate controlled building, breathing losses are considered to be negligible.

VII. GENERAL CALCULATIONS

A. Assumptions

- The maximum operating schedule for this facility is 24 hours/day and 365 days/year.
- Winery tanks generally consist of two emissions units; 1) a fermentation tank emissions unit and 2) a wine storage tank emissions unit.
- All 178 tanks being modified within this project are authorized for red and white wine storage service.
- Tanks N-1237-498 through '-565 are authorized for red and white wine fermentation service (68 tanks).
- Tanks N-1237-645 through '-660 are authorized for white wine fermentation service only (16 tanks).
- After this project, the total annual VOC emissions from all wine fermentation and storage operations from this group of 178 tanks shall not exceed 191,260 pounds per year (proposed by the applicant).

Fermentation Operations:

- Daily VOC fermentation emissions will be determined using a worst case of one tank turnover of nominal tank capacity per day (current permit limit and proposed by the applicant).

Storage Operations:

- The maximum daily wine storage throughputs were taken from the current permits for each of these 178 tanks and will not be modified within this project (proposed by the applicant).
- The average ethanol content of the wine stored in each of the 178 tanks will be set at 15% (current permit limit and proposed by the applicant).
- Daily breathing losses are assumed to be negligible from the storage operations since all storage tank emissions units being installed by this project are insulated and equipped with a pressure/vacuum relief valve.

B. Emission Factors

N-1237-498 through '-565 (Red and White Wine Fermentation Tanks):

The emission factors for the wine fermentation operations within these tanks were taken from the current permits and supported by District FYI-114, *VOC Emission Factors for Wine Fermentation and Storage Tanks* (Revised 8/10/11, included in Appendix C):

Red Wine Fermentation:

Daily:	3.46 lb-VOC/1000 gallons of tank capacity
Annual:	6.2 lb-VOC/1000 gallons annual throughput

White Wine Fermentation:

Daily: 1.62 lb-VOC/1000 gallons of tank capacity
Annual: 2.5 lb-VOC/1000 gallons annual throughput

N-1237-645 through '-660 (white wine fermentation tanks only):

The uncontrolled emission factors below are taken from the current PTOs.

White Wine Fermentation:

Daily: 1.62 lb-VOC/1000 gallons of tank capacity
Annual: 1.6 lb-VOC/1000 gallons annual throughput

Per District Policy APR 1110, the above annual white wine emission factor will be revised in this project. The above annual white wine emission factor was developed by taking the emission factor from District FYI-114, *VOC Emission Factors for Wine Fermentation and Storage Tanks* and applying a 35% reduction because fermentation tanks subject to Rule 4694 are subject to a 35% reduction in emissions. District Policy allows emission reduction credits (ERCs) for wine fermentation to be discounted by 35% due to the requirement of Rule 4694 for wine fermentation tanks to be controlled by 35%; therefore, the 35% reduction will only be applied to the amount of offsets required and not to the emission factor used to determine the potential to emit from each tank.

Therefore, the uncontrolled emissions factors are taken from District FYI-114, *VOC Emission Factors for Wine Fermentation and Storage Tanks* (Revised 8/10/11, included in Appendix C).

Daily: 1.62 lb-VOC/1000 gallons of tank capacity
Annual: 2.5 lb-VOC/1000 gallons annual throughput

Wine Storage Tanks:

Daily:

The daily emissions from the wine stored in these tanks were previously determined using EPA's Tanks 4.0 program or the emission factors listed in FYI 114. The proposed project is not proposing to modify the daily VOC emission factors from these wine storage tanks. Therefore, no further discussion is required.

Annual:

The annual VOC emission factor from the wine storage operations in these tanks will be determined using the equation and the correlation factors from FYI 114. The equation and correlation factors for winery tanks storing wine with an ethanol concentration of up to 24% operated in the Northern Region of the District is as follows:

EF = a * P^2 + b*P + c

Where:

Ef = VOC Emission Factor for each wine ethanol content
P = Volume percent ethanol of the wine being transferred/stored
a = -0.38194
b = 97917
c = 0

C. Calculations

1. Pre-Project Potential to Emit (PE1)

PE1 for the existing winery tanks is based on each tank's current permit limitations: nominal sizes, throughputs and emission limits. The pre-project emissions for each unit are shown in the spreadsheet in Appendix D, and summarized for each tank grouping in the following table.

Pre-Project Potential to Emit (PE1)					
Permit Units	**Nominal Tank Size (gallons)**	**Daily PE1 for Each Tank[1] (lb/day, each)**	**Annual Fermentation PE1 for Each Tank (lb/yr, each)**	**Annual Storage PE1 for Each Tank (lb/yr, each)**	**Total Annual PE1 for Each Tank Group (lb/yr)**
'-490 through '-497	35,000	11.8	0	32	256
'-498 through '-501	35,000	121.1	263	101	1,456
'-502 through '-517	70,000	242.2	350	202	8,832
'-518 through '-533	105,000	363.3	1,050	303	21,648
'-534 through '-549	215,000	743.9	3,225	621	61,536
'-550 through '-565	350,000	1,211.0	1,750	506	36,096
'-568 and '-569	640,000	233.6	0	672	1,344
'-609 through '-616	35,000	8.3	0	48	384
'-617 through '-644	105,000	24.8	0	286	8,008
'-645 through '-660	215,000	348.3	1,613	585	35,168
'-662 through '-669	35,000	3.4	0	25	200
'-697 through '-700	35,000	3.5	0	101	404
'-701 through '-708	350,000	35.0	0	506	4,048
'-709 through '-716	629,000	63.0	0	643	5,144
'-717 through '-724	35,000	3.4	0	25	200
'-764 through '-767	215,000	23.6	0	622	2,488
'-768 through '-775	350,000	39.8	0	506	4,048
				Total for all 176 Tanks (lb/yr):	**191,260**

2. Post-Project Potential to Emit (PE2)

Daily PE (PE2):

The proposed project does not involve any changes to the operating schedule, emission factors, or throughput rates of these winery tanks on a daily basis. Therefore, there will not be any changes to the VOC emissions and the daily post project potential to emit values will be set equal to the daily pre-project potential to emit values listed above.

[1] The Daily PE1 values listed in the following table for each tank are the worst case daily emissions from either wine fermentation or wine storage.

Annual PE (PE2):

The applicant is proposing to establish a combined annual VOC limit for all of the wine fermentation and storage operations for 178 winery tanks being modified within this project. They are proposing that the combined annual total VOC emissions from all 178 winery tanks be set equal to the sum of their annual pre-project potential to emit, 191,260 lb/year. Each individual winery tank will no longer have an annual fermentation and/or storage throughput or VOC emission limit. Therefore, the post project annual VOC emissions will be set equal to the value listed below and no further discussion is required.

Post Project Potential to Emit (PE2)			
	Total Annual Fermentation PE2 for 178 Tank Group (lb/year)	**Total Annual Storage PE2 for 178 Tank Group (lb/year)**	**Total PE2 for 178 Tank Group (lb/year)**
VOC PE2	128,860	62,400	191,260

3. Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to Section 4.9 of District Rule 2201, the Pre-Project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, SSPE1 calculations are not necessary.

4. Post-Project Stationary Source Potential to Emit (SSPE2)

Pursuant to Section 4.10 of District Rule 2201, the Post Project Stationary Source Potential to Emit (SSPE2) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, SSPE2 calculations are not necessary.

5. Major Source Determination

Pursuant to District Rule 2201, a Major Source is a stationary source with a SSPE2 equal to or exceeding one or more of the following threshold values. For the purposes of determining major source status the following shall not be included:

- any ERCs associated with the stationary source
- Emissions from non-road IC engines (i.e. IC engines at a particular site at the facility for less than 12 months)
- Fugitive emissions, except for the specific source categories specified in 40 CFR 51.165

This source is an existing Major Source for VOC emissions and will remain a Major Source for VOC. No change in other pollutants are proposed or expected as a result of this project.

Rule 2410 Major Source Determination:

The following table summarizes projects that authorized winery tank related operations at this facility that resulted in a potential VOC emission increase prior to the proposed project.

Project Number	Proposed Permitting Actions	PE (lb-VOC/year)
N-1072605	Applying for In-house PTOs for existing wine storage and fermentation tanks	470,985
N-1110129	Install 2 wine fermentation tanks	8,432
N-1110722	Convert 7 existing grape juice tanks to wine fermentation tanks	15,680
N-1113344	Install 104 wine storage and fermentation tanks	94,430
N-1113395	Install 3 wine storage and fermentation tanks	10,173
N-1113407	Install 2 distilled spirit tanks	188
N-1123583	Install 52 new wine storage tanks	34,264
N-1131615	Install 8 wine storage tanks and 24 wine fermentation tanks	85,064
N-1132991	Install 20 wine storage tanks	9,596
N-1133659	Install 24 wine fermentation and 8 wine storage tanks	85,064
N-1141254	Install 12 wine storage and fermentation tanks	1,164
N-1143437	Install 12 wine storage tanks	6,536
N-1143697	Install 5 wine and spirits storage tanks	328
Total		**821,904**

As indicated above, the SSPE for VOC emissions solely from their winery tank related operations prior to the proposed project is calculated to be 821,904 pounds per year, equivalent to 411 tons per year.

The facility evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21(b)(1)(i). Therefore, the following PSD Major Source threshold for VOC is applicable.

PSD Major Source Determination (tons/year)	
	VOC
Facility PE before Project Increase	411
PSD Major Source Thresholds	250
Existing PSD Major Source?	**Yes**

As shown above, the facility is an existing Major Source for PSD for VOC. Therefore, the facility is an existing Major Source for PSD.

6. Baseline Emissions (BE)

The BE calculation (in lb/year) is performed pollutant-by-pollutant for each unit within the project to calculate the QNEC, and if applicable, to determine the amount of offsets required.

Pursuant to District Rule 2201, BE = PE1 for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to District Rule 2201.

a. BE VOC

Units Located at a Non-Major Source

As shown in Section VII.C.5 above, the facility is a major source for VOC emissions.

Clean Emissions Unit, Located at a Major Source

Pursuant to Rule 2201, Section 3.12, a Clean Emissions Unit is defined as an emissions unit that is "equipped with an emissions control technology with a minimum control efficiency of at least 95% or is equipped with emission control technology that meets the requirements for achieved-in-practice BACT as accepted by the APCO during the five years immediately prior to the submission of the complete application.

As demonstrated in the top down BACT analysis for winery fermentation tanks in Appendix F and winery storage tanks in Appendix G, each of the 178 winery tanks within this project meet the District's current achieved-in-practice BACT for winery fermentation and storage tanks. Therefore, all 178 winery tanks within this project can be considered *Clean Emissions Units* pursuant to District Rule 2201 and the BE can be set equal to each units PE1.

As shown above, the sum of the PE1 values for all of the 178 winery tanks is as follows:

$\Sigma BE = \Sigma PE1 = 191{,}260$ lb-VOC/year

7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 as "any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act."

As discussed in Section VII.C.5 above, since this facility is a major source for VOC emissions, the project's PE2 is compared to the SB 288 Major Modification Thresholds in the following table in order to determine if the SB 288 Major Modification calculation is required.

SB 288 Major Modification Thresholds			
Pollutant	**Project PE2 (lb/year)**	**Threshold (lb/year)**	**SB 288 Major Modification Calculation Required?**
NO_x	0	50,000	No
SO_x	0	80,000	No
PM_{10}	0	30,000	No
VOC	191,260	50,000	Yes

Since the project's PE2 surpasses the SB 288 Major Modification Thresholds for VOC emissions, the Net Emissions Increase (NEI) will be compared to the SB 288 Major Modification thresholds in order to determine if this project constitutes an SB 288 Major Modification.

The NEI is the total of emission increases for every permit unit addressed in this project and is calculated as follows:

NEI = PE2 – BAE

Where: PE2 = the sum of all the PE2s for each permit unit in this project
BAE = for units that are fully offset, the BAE = the PE1 for every unit, otherwise, the BAE is the actual annual emissions averaged over the baseline period for every unit.

The BAE for each unit has been calculated in Appendix E and the NEI is calculated as follows:

$NEI = \Sigma PE2_{178\ Tanks} - \Sigma BAE_{178\ Tanks}$

SB 288 Major Modification Calculation and Determination					
Pollutant	**ΣPE2 (lb/yr)**	**ΣBAE (lb/yr)**	**NEI (lb/yr)**	**Thresholds (lb/yr)**	**SB 288 Major Modification?**
NO_x	0	0	0	50,000	No
SO_x	0	0	0	80,000	No
PM_{10}	0	0	0	30,000	No
VOC	191,260	48,404	142,856	50,000	Yes

As demonstrated in the preceding table, this project does constitute an SB 288 Major Modification.

8. Federal Major Modification

District Rule 2201 states that a Federal Major Modification is the same as a "Major Modification" as defined in 40 CFR 51.165 and part D of Title I of the CAA.

The determination of Federal Major Modification is based on a two-step test. For the first step, only the emission *increases* are counted. Emission decreases may not cancel out the increases for this determination.

Step 1

For existing emissions units, the increase in emissions is calculated as follows.

Emission Increase = PAE – BAE - UBC

Where: PAE = Projected Actual Emissions, and
BAE = Baseline Actual Emissions
UBC = Unused baseline capacity

The applicant has indicated that they want the ability to use all of these tanks up to their full potential to emit. Therefore, the PAE will be set equal to the post project SLC value, 191,260 lb/year.

The BAE is calculated based on historical emissions and operating records for any 24 month period, selected by the operator, within the previous 10 year period (5 years for electric utility steam generating units). The BAE must be adjusted to exclude any non-compliant operation emissions and emissions that are no longer allowed due to lower applicable emission limits that were in effect when this application was deemed complete. The historical operating data provided by the applicant and the BAE calculations can be found in Appendix E.

UBC is the portion of Baseline Capacity (BC) that the emission units could have accommodated during the baseline period. Each of these existing tank permits contained emissions and/or throughput limitations for wine fermentation and storage operations. There are no other physical or legal limitations on these tanks or the entire winery facility that would directly affect how much E & J Gallo Winery could have potentially operated or used these tanks. Therefore, the BC of each tank will be set equal to each unit's pre-project permitted emission level. Calculations for the UBC of each tank are included in Appendix E and are were determined using the following formula:

UBC = BC – BAE
= PE1 – BAE

Based on the values calculated in Appendix E, the emission increase calculation is as follows:

Emission Increase = 191,260 lb/year – 48,404 lb/year – 142,856 lb/year = 0 lb/year

Federal Major Modification Thresholds for Emission Increases			
Pollutant	**Total Emissions Increases (lb/yr)**	**Thresholds (lb/yr)**	**Federal Major Modification?**
NO_x*	0	0	No
VOC*	0	0	No
PM_{10}	0	30,000	No
$PM_{2.5}$	0	20,000	No

*If there is any emission increases in NO_x or VOC, this project is a Federal Major Modification and no further analysis is required.

Since none of the Federal Major Modification Thresholds are being surpassed with this project, this project does not constitute a Federal Major Modification and no further analysis is required.

9. Rule 2410 – Prevention of Significant Deterioration (PSD) Applicability Determination

Rule 2410 applies to pollutants for which the District is in attainment or for unclasssified, pollutants. The pollutants addressed in the PSD applicability determination are listed as follows:

- NO_2 (as a primary pollutant)
- SO_2 (as a primary pollutant)
- CO
- PM
- PM_{10}
- Greenhouse gases (GHG): CO_2, N_2O, CH_4, HFCs, PFCs, and SF6

The first step of this PSD evaluation consists of determining whether the facility is an existing PSD Major Source or not (See Section VII.C.5 of this document).

In the case the facility is an existing PSD Major Source, the second step of the PSD evaluation is to determine if the project results in a PSD significant increase.

In the case the facility is NOT an existing PSD Major Source but is an existing source, the second step of the PSD evaluation is to determine if the project, by itself, would be a PSD major source.

In the case the facility is new source, the second step of the PSD evaluation is to determine if this new facility will become a new PSD major Source as a result of the project and if so, to determine which pollutant will result in a PSD significant increase.

I. Project Location Relative to Class 1 Area

As demonstrated in the "PSD Major Source Determination" Section above, the facility was determined to be a existing major source for PSD. Because the project is not located within 10 km of a Class 1 area – modeling of the emission increase is not required to determine if the project is subject to the requirements of Rule 2410.

II. Significance of Project Emission Increase Determination

a. Potential to Emit of attainment/unclassified pollutant for New or Modified Emission Units vs PSD Significant Emission Increase Thresholds

As a screening tool, the potential to emit from all new and modified units is compared to the PSD significant emission increase thresholds, and if total potential to emit from all new and modified units is below this threshold, no further analysis will be needed.

PSD Significant Emission Increase Determination: Potential to Emit (tons/year)						
	NO_2	SO_2	CO	PM	PM_{10}	CO_2e
Total PE from New and Modified Units	0	0	0	0	0	0
PSD Significant Emission Increase Thresholds	40	40	100	25	15	75,000
PSD Significant Emission Increase?	N	N	N	N	N	N

As demonstrated above, because the project has a total potential to emit from all new and modified emission units below the PSD significant emission increase thresholds, this project is not subject to the requirements of Rule 2410 due to a significant emission increase and no further discussion is required.

10. Quarterly Net Emissions Change (QNEC)

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen. Detailed QNEC calculations are included in Appendix G.

VIII. COMPLIANCE

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis for the following*:

a. Any new emissions unit with a potential to emit exceeding two pounds per day,
b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
d. Any new or modified emissions unit, in a stationary source project, which results in a SB288 Major Modification or a Federal Major Modification.

*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

a. New emissions units – PE > 2 lb/day

As discussed in Section I above, there are no new emissions units associated with this project. Therefore BACT for new units with PE > 2 lb/day purposes is not triggered.

b. Relocation of emissions units – PE > 2 lb/day

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

c. Modification of emissions units – AIPE > 2 lb/day

AIPE calculations are performed solely to determine if BACT is required for modified emission units. As shown in the section A.1.d. discussion below, the proposed project triggers an SB 288

AIPE = PE2 – HAPE

Where,

AIPE = Adjusted Increase in Permitted Emissions, (lb/day)
PE2 = Post-Project Potential to Emit, (lb/day)
HAPE = Historically Adjusted Potential to Emit, (lb/day)

HAPE = PE1 x (EF2/EF1)

Where,

PE1 = The emissions unit's PE prior to modification or relocation, (lb/day)
EF2 = The emissions unit's permitted emission factor for the pollutant after modification or relocation. If EF2 is greater than EF1 then EF2/EF1 shall be set to 1
EF1 = The emissions unit's permitted emission factor for the pollutant before the modification or relocation

AIPE = PE2 – (PE1 * (EF2 / EF1))

As shown in Section VII.C.2 of this evaluation, the applicant is not proposing to modify the daily throughput limits or emission factors for any of the winery tanks in this project. Therefore, the AIPE calculation can break down to the following:

AIPE = PE2 – PE1 => 0.0 lb/day

However, as seen in Section VII.C.2 of this evaluation, the applicant is proposing to establish a combined VOC emission limit between 178 winery fermentation and storage tanks. The addition of this combined annual VOC emission limit will potentially allow each of the tanks to operate on new days throughout the year that they could not previously operate on. In accordance with District Policy APR 1350, BACT Requirements for Modifications to Existing Emission Units, modifications to existing emission units that result in permitted utilization such the AIPE increases more than 2.0 lb in any one day are required to satisfy the BACT requirements of Rule 2201.

As shown in Appendix B, the daily emissions from each of the winery tanks in this project are greater than 2.0 lb/day. Therefore, on any new day that each tank can operate on, the PE1 value would be zero and the AIPE value would be greater than 2.0 lb/day. Therefore, BACT is triggered for VOC emissions from each of the wine fermentation and storage tanks.

d. SB288/Federal Major Modification

As discussed in Sections VII.C.7 above, this project does constitute an SB 288 Major Modification for VOC emissions. Therefore BACT is triggered for VOC for all emissions units in the project for which there is an emission increase.

2. BACT Guideline

Fermentation Operations:

BACT Guideline 5.4.14 applies to wine fermentation tanks. E & J Gallo Winery is proposing to modify 84 wine fermentation tanks within this project. Therefore, BACT Guideline 5.4.14 is applicable to the wine storage tanks and no further discussion is required (BACT Guideline 5.4.14 included in Appendix F).

Storage Operations:

BACT Guideline 5.4.13, applies to wine storage tanks. E & J Gallo Winery is proposing to modify 178 wine storage tanks. Therefore, BACT Guideline 5.4.13 is applicable to the wine storage tanks and no further discussion is required (BACT Guideline 5.4.13 included in Appendix G).

3. Top-Down BACT Analysis

In accordance with Permit Services Policies and Procedures for BACT, a Top-Down BACT analysis shall be performed as a part of the application review for each application subject to the BACT requirements pursuant to the District's NSR Rule.

Fermentation Operations (N-1237-498 through '-565 and '-645 through '-660):

Pursuant to the attached Top-Down BACT Analysis in Appendix F, since the tecnologically feasible options are not cost effective and pursuant to the attached Achieved-in-Practice Analysis (Attachment F1), BACT has been satisfied with the following:

VOC: Temperature-controlled open top tank with maximum average fermentation temperature of 95 deg F.

Each of the wine fermentation tanks being modified within this project will be a temperature controlled tank with a maximum average fermentation temperature of 95 degrees F. Therefore, the proposed wine fermentation tanks meet the BACT requirements for this class and category of operation and no further discussion is required.

The following condition will be included on each of the fermentation tank ATCs to assure compliance with the BACT requirements:

- The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]

Storage Operations (All 178 Winery Tanks):

Pursuant to the attached Top-Down BACT Analysis (see Appendix G), BACT is satisfied with the following:

VOC: Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and continuous storage temperature not exceeding 75°F, achieved within 60 days of completion of fermentation.

Each of the wine storage tanks being modified within this project is equipped with insulation and a pressure/vacuum valve set to within 10% of the maximum allowable working pressure of the tank; operates in a gas-tight condition and the continuous storage temperature does not exceed 75 degrees F within 60 days of the completion of the fermentation cycle. Therefore, the wine storage tanks meet the BACT requirements for this class and category of operation and no further discussion is required.

The following conditions will be included on the ATCs to assure compliance with the BACT requirements:

Wine Storage Tanks Only:

- This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]

Wine Fermentation and Storage Tanks:

- When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]

All Permits:

- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]

B. Offsets

1. Offset Applicability

Pursuant to Section 4.5.3, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the Post Project Stationary Source Potential to Emit (SSPE2) equals to or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

The following table compares the post-project facility-wide annual emissions in order to determine if offsets will be required for this project.

Pollutant	SSPE2 (lb/yr)	Offset Threshold Levels (lb/yr)	Offsets Required?
VOC	> 20,000	20,000	Yes

2. Quantity of Offsets Required

As discussed above, the facility is an existing Major Source for VOC and the SSPE2 is greater than the offset threshold; therefore offset calculations will be required for this project.

VOC Emissions:

Per Sections 4.7.1 and 4.7.3, the quantity of offsets in pounds per year for VOC is calculated as follows for sources with an SSPE1 greater than the offset threshold levels before implementing the project being evaluated.

Offsets Required (lb/year) = (Σ[PE2 – BE] + ICCE) x DOR, for all new or modified emissions units in the project,

Where,
PE2 = Post Project Potential to Emit, (lb/year)
BE = Baseline Emissions, (lb/year)
ICCE = Increase in Cargo Carrier Emissions, (lb/year)
DOR = Distance Offset Ratio, determined pursuant to Section 4.8

As calculated in Section VII.C.6 above, the BE from this unit are equal to the PE1 since the units are all considered Clean Emissions Units. Also, there are no increases in cargo carrier emissions. Therefore, offsets can be determined as follows:

Offsets Required (lb/year) = ([PE2 – BE] + ICCE) x DOR

Sum of PE2 (VOC) = 191,260 lb/year
Sum of BE (VOC) = 191,260 lb/year
ICCE = 0 lb/year

VOC Offsets Required (lb/year) = ([191,260 lb/year – 191,260 lb/year] + 0) x DOR
= 0 lb-VOC/year x DOR

As demonstrated in the calculation above, the amount of offsets is zero. Therefore, offsets will not be required for this project.

C. Public Notification

1. Applicability

Public noticing is required for:
a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications,
b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
c. Any project which results in the offset thresholds being surpassed, and/or
d. Any project with an SSIPE of greater than 20,000 lb/year for any pollutant.
e. Any project which results in a Title V significant permit modification

a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

As demonstrated in Sections VII.C.7 above, this project is an SB 288 Major Modification. Therefore, public noticing for SB 288 Major Modification purposes is required.

b. PE > 100 lb/day

Applications which include a new emissions unit with a PE greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. There are no new emissions units associated with this project. Therefore public noticing is not required for this project for PE > 100 lb/day.

c. Offset Threshold

Public notification is required if the Pre-Project Stationary Source Potential to Emit (SSPE1) is increased from a level below the offset threshold to a level exceeding the emissions offset threshold, for any pollutant.

The following table compares the SSPE1 with the SSPE2 in order to determine if any offset thresholds have been surpassed with this project.

Pollutant	SSPE1 (lb/year)	SSPE2 (lb/year)	Offset Threshold	Public Notice Required?
VOC	>20,000	>20,000	20,000 lb/year	No

As detailed above, there were no thresholds surpassed with this project; therefore public noticing is not required for offset purposes.

d. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any one pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e. SSIPE = SSPE2 – SSPE1.

For the purposes of this project, the difference in SSPE will only result from the changes in emissions associated with the winery tanks in this project. Therefore, the annual emission rates from the units in this project, not the SSPE for the entire facility, will be used to determine the SSIPE.

Pollutant	SSPE2 (lb/year)	SSPE1 (lb/year)	SSIPE (lb/year)
VOC	>20,000	>20,000	0

As demonstrated above, the SSIPE was determined to be less than 20,000 lb/year for all pollutants; therefore public noticing for SSIPE purposes is not required.

e. Title V Significant Permit Modification

As shown in the Discussion of Rule 2520 below, this project constitutes a Title V significant modification. Therefore, public noticing for Title V significant modifications is required for this project.

2. Public Notice Action

As discussed above, public noticing is required for this project for triggering an SB288 Major Modification and Title V Significant Permit Modification. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and a public notice will be published in the local newspaper of general circulation prior to the issuance of the ATC's for these winery tank modifications.

D. Daily Emission Limits (DELs)

DELs and other enforceable conditions are required by Rule 2201 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. The DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

All Permits:

- For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201]

- The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201]

- If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201]

Wine Storage Tanks (All 178 Winery Tanks in Project):

- The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201]

- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]

The following typical throughput condition will be included on the ATCs for each grouping of tanks in different service types, with the specific daily throughputs rate taken from the current permit for each tank and as listed in the calculation table in Appendix B.

- The maximum wine storage throughput in this tank shall not exceed xxx,xxx gallons per day. [District Rule 2201]

In addition, in order for the applicant to be able to demonstrate ongoing compliance with the proposed combined annual VOC limit for all wine storage operations for all tanks within this project, the following conditions will be included on each of the wine storage tank ATCs:

- Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201]

- The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201]

White Wine Fermentation Tanks (N-1237-645 through '-660);

- The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons of nominal tank capacity. [District Rule 2201]

In addition, in order for the applicant to be able to demonstrate ongoing compliance with the proposed combined annual VOC limit for all wine fermentation operations for all of the tanks within this project, the following condition will be included on each of the white wine fermentation tank ATC's:

- Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201]

Red and White Wine Fermentation Tanks (N-1237-498 through '-565);

- The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of nominal tank capacity. [District Rule 2201]

The daily emission limit for wine fermentation will change depending on the tank size. Therefore, the following typical condition for permit N-1237-498 will be listed on each of the wine fermentation tank ATC permits in this project to ensure compliance:

- The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201]

In addition, in order for the applicant to be able to demonstrate ongoing compliance with the proposed combined annual VOC limit for all wine fermentation and storage operations for all of the tanks within this project, the following condition will be included on each of the red and white wine fermentation tank ATC's:

- Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201]

E. Compliance Assurance

1. Source Testing

Pursuant to District Policy APR 1705, source testing is not required to demonstrate compliance with Rule 2201.

2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

3. Recordkeeping

Recordkeeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. In addition, recordkeeping is also required for winery tanks pursuant to District Rule 4694, *Wine Fermentation and Storage Tanks.* All records shall be retained on site for a period of at least five years and made available to District inspection upon request. The following conditions will be included on the ATC's and PTO's to ensure continued compliance with the recordkeeping requirements:

All Permits:

- On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months from each tank. [District Rule 2201]

- Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]

- Records shall be retained on-site for a minimum of five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

Wine Storage Tanks Only:

- Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]

- The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]

- The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201]

Wine Fermentation and Storage Tanks;

- For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694]

- The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201]

- When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]

- When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rules 4694]

4. Reporting

No reporting is required to demonstrate compliance with District Rule 2201.

F. Air Quality Impact Analysis

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. However, since this project involves only VOC and no ambient air quality standard exists for VOC, an AAQA is not required for this project.

G. Compliance Certification

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Federal Major Modification to demonstrate to the satisfaction of the District that all other Major Sources owned by such person and operating in California are in compliance or are on a schedule for compliance with all applicable emission limitations and standards. As discussed in Sections VIII-Rule 2201-C.1.a and VIII-Rule 2201-C.1.b, this project does constitute a Federal Major Modification, therefore this requirement is applicable. E & J Gallo Winery's statewide compliance certification is included in Appendix H.

H. Alternative Siting Analysis

District Rule 2201, Section 4.15.1 requires an alternative siting analysis for any project which constitutes a New Major Source or a Federal Major Modification. As shown above, this project triggers an SB 288 Major Modification and a Federal Major Modification. Therefore, an alternative siting analysis must be performed.

In addition to winery tanks, the operation of a winery requires a large number support equipment, services and structures such as raw material receiving stations, crushers, piping, filtering and refrigeration units, warehouses, laboratories, bottling and shipping facilities, and administration buildings.

Since the current project does not involve the installation of any new equipment, involves no change in the winery's total tank volume and no change to any other facets of the operation, the existing site will result in the least possible impact from the project. Alternative sites would involve the relocation and/or construction of various support structures and facilities on a much greater scale, and would therefore result in a much greater impact.

Rule 2410 Prevention of Significant Deterioration

The prevention of significant deterioration (PSD) program is a construction permitting program for new major stationary sources and major modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant.

As shown in Section VII. C. 9. above, this project does not result in a new PSD major source or PSD major modification. Therefore, this project is not subject to the requirements of Rule 2410 and no further discussion is required.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. Section 3.29 defines a significant permit modification as a "permit amendment that does not qualify as a minor permit modification or administrative amendment."

Section 3.20.5 states that a minor permit modification is a permit modification that is not a SB 288 major modification, as defined in Rule 2201[(2)]. As discussed above, this project triggers a SB 288 major modification. As a result, the proposed project constitutes a Significant Modification to the Title V Permit pursuant to Section 3.29.

[(2)] District Rule 2520, Section 3.20.5 actually states that a project shall not constitute a Title I modification, as defined in Rule 2201. In a previous version of Rule 2201, the term Title I modification was replaced with SB 288 Major Modification. However, at that time, the terminology in Rule 2520 was not updated to reflect the new Rule 2201 terms. Therefore, even though Rule 2520 references that a project triggering a Title I modification does not qualify as a Title V minor modification, it will be replaced with the term SB 288 Major Modification for the purposes of this project.

As discussed above, the facility has applied for a Certificate of Conformity (COC). Therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The facility may construct/operate under the ATCs upon submittal of the Title V administrative amendment application. The following conditions will be included on each ATC and will assure compliance with the requirements of Rule 2520:

- This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule]

- Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4]

Rule 4001 New Source Performance Standards

This rule incorporates NSPS from Part 60, Chapter 1, Title 40, Code of Federal Regulations (CFR); and applies to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60. However, no subparts of 40 CFR Part 60 apply to wine fermentation and storage tank operations. Therefore, no further discussion is required.

Rule 4002 National Emission Standards for Hazardous Air Pollutants (NESHAP's)

This rule incorporates NESHAPs from Part 61, Chapter I, Subchapter C, Title 40, CFR and the NESHAPs from Part 63, Chapter I, Subchapter C, Title 40, CFR; and applies to all sources of hazardous air pollution listed in 40 CFR Part 61 or 40 CFR Part 63. However, no subparts of 40 CFR Part 61 or 40 CFR Part 63 apply to wine fermentation and storage tank operations. Therefore, no further discussion is required.

Rule 4102 Nuisance

Section 4.0 prohibits discharge of air contaminants, which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected. Compliance with the requirements of this rule is ensured by the following condition, currently included as condition 41 on E & J Gallo Winery's facility wide permit N-1237-0-2:

- No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

California Health & Safety Code 41700 (Health Risk Assessment)

District Policy APR 1905 - Risk Management Policy for Permitting New and Modified Sources specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

VOC emissions, as ethanol, is the only pollutant generated by winery fermentation and storage tanks. Ethanol is not a HAP as defined by Section 44321 of the California Health and Safety Code. Therefore, there are no increases in HAP emissions associated with any emission units in this project and a health risk assessment is not necessary. No further risk analysis is required.

Rule 4623 Storage of Organic Liquids

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the storage of organic liquids. This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

However, Section 4.1.4 provides an exemption for tanks used to store fermentation products, byproducts or spirits. The tanks in this project are used solely for the fermentation and storage of wine.

Therefore, the requirements of this rule are not applicable to any of the winery tanks within this project.

Rule 4694 Wine Fermentation and Storage Tanks

The purpose of this rule is to reduce emissions of volatile organic compounds (VOC) from the fermentation and bulk storage of wine, or achieve equivalent reductions from alternative emission sources. This rule is applicable to all facilities with fermentation emissions in excess of 10 tons-VOC/year. The storage tank provisions of this rule apply to all tanks with capacity in excess of 5,000 gallons.

Section 5.1 requires the winery operator achieve Required Annual Emissions Reductions (RAER) equal to at least 35% of the winery's Baseline Fermentation Emissions (BFE). Per the definition of RAER in Section 3.25 of the Rule, the RAER may be achieved by any combination of Fermentation Emission Reductions (FER), Certified Emission Reductions (CER) or District Obtained Emission Reductions (DOER) as established in the facility's District-approved Rule 4694 Compliance Plan, due every three years on December 1st beginning in 2006. The facility has submitted the required plan to the District and is currently satisfying the required emission reductions in the form of Certified Emission Reductions.

Section 5.2 places specific restrictions on wine storage tanks with 5,000 gallons or more in capacity when such tanks are not constructed of wood or concrete. Section 5.2.1 requires these tanks to be equipped and operated with a pressure-vacuum relief valve meeting all of the following requirements:

- The pressure-vacuum relief valve shall operate within 10% of the maximum allowable working pressure of the tank,
- The pressure-vacuum relief valve shall operate in accordance with the manufacturer's instructions, and
- The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings.
- The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21.

Therefore, the following conditions will be placed on the permit for each storage tank with capacity greater than 5,000 gallons and not constructed of concrete or wood to ensure compliance with the requirements of Section 5.2.1:

Wine Storage Tanks Only:

- This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]

- The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]

Fermentation and Storage Tanks:

- When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694]

- When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21 [District Rule 4694]

Section 5.2.2 requires that the temperature of the stored wine be maintained at or below 75° F.

The following condition will be placed on the permit for each storage tank with capacity greater than 5,000 gallons and not constructed of concrete or wood to ensure compliance with the requirements of Section 5.2.2:

- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]

Every three years, Section 6.1 and 6.2 require the facility to submit a Three-Year Compliance Plan and a Three-Year Compliance Plan Verification respectively. Section 6.3 requires that an Annual Compliance Plan Demonstration be submitted to the District no later than February 1 of each year to show compliance with the applicable requirements of the Rule. Section 6.4 requires that records required by this rule be maintained, retained on-site for a minimum of five years, and made available to the APCO upon request. Section 6.4.3 requires that all monitoring be performed for any Certified Emission Reductions as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained. The following conditions on the facility-wide permit (N-1237-0-2) assure compliance:

- A Three-Year Compliance Plan that demonstrates compliance with the requirements of Section 5.1 of District Rule 4694 for each year of the applicable compliance period shall be submitted to the District by no later than December 1, 2006, and every three years thereafter on or before December 1. [District Rule 4694]

- A Three-Year Compliance Plan Verification that demonstrates that the Three-Year Compliance Plan elements are in effect shall be submitted to the District by no later than July 1, 2007, and every three years thereafter on or before July 1. [District Rule 4694]

- An Annual Compliance Plan Demonstration that shows compliance with the applicable requirements of this rule shall be submitted to the District by no later than February 1, 2008, and every year thereafter on or before February 1. [District Rule 4694]

- Operators using CER to mitigate fermentation emissions shall perform all monitoring and recordkeeping, as established in their approved Three-Year Compliance Plan, and shall maintain all records necessary to demonstrate compliance. [District Rule 4694]

- The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings [District Rule 2520, 9.4.2]

Section 6.4.1 requires that records be kept for each fermentation batch. The following condition will be placed on ATCs N-1237-498 through '-560 and '-645 through '-660 to assure compliance:

- For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694]

Section 6.4.2 requires that weekly records be kept of wine volume and temperature in each storage tank. All tanks in this facility are storage tanks. Therefore, the following conditions will be placed on the permit for each storage tank to assure compliance with the requirements of Section 6.4.2:

Storage Only Tanks:

- The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]

Fermentation and Storage Tanks:

- When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine.[District Rule 4694]

Section 6.4.3 requires that all monitoring be performed for any Certified Emission Reductions as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained. The following condition on the facility-wide permit (N-1237-0-2) ensures compliance:

- Operators using CER to mitigate fermentation emissions shall perform all monitoring and recordkeeping, as established in their approved Three-Year Compliance Plan, and shall maintain all records necessary to demonstrate compliance. [District Rule 4694]

California Health & Safety Code 42301.6 (School Notice)

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.

California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.
- Identify the ways that environmental damage can be avoided or significantly reduced.
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

The County of Merced (County) is the public agency having principal responsibility for approving the project. As such, the County served as the Lead Agency (CCR §15367). In approving the project, the Lead Agency prepared and adopted a Negative Declaration. The Lead agency filed a Notice of Determination, stating that the environmental document was adopted pursuant to the provisions of CEQA and concluding that the project would not have a significant effect on the environment.

The District is a Responsible Agency for the project because of its discretionary approval power over the project via its Permits Rule (Rule 2010) and New Source Review Rule (Rule 2201), (CCR §15381). As a Responsible Agency the District complies with CEQA by considering the environmental document prepared by the Lead Agency, and by reaching its own conclusion on whether and how to approve the project (CCR §15096).

The District has considered the Lead Agency's environmental document and finds that it adequately characterizes the project's potential impact on air quality. In addition, all feasible and cost-effective control measures to reduce potential impacts on air quality resulting from project related stationary source emissions have been applied to the project as part of BACT. Furthermore, the District has conducted an engineering evaluation of the project, this document, which demonstrates that Stationary Source emissions from the project would be reduced. Thus, the District finds that through a combination of project design elements, compliance with applicable District rules and regulations, and compliance with District air permit conditions, project specific stationary source emissions would be reduced to lessen the impacts on air quality. The District does not have authority over any of the other project impacts and has, therefore, determined that no additional findings are required (CEQA Guidelines §15096(h)).

Indemnification Agreement/Letter of Credit Determination

According to District Policy APR 2010 (CEQA Implementation Policy), when the District is the Lead or Responsible Agency for CEQA purposes, an indemnification agreement and/or letter of credit may be required. The decision to require an indemnity agreement and/or letter of credit are based on a case-by-case analysis of a particular project's potential for litigation risk, which in turn may be based on a project's potential to generate public concern, its potential for significant impacts, and the project proponent's ability to pay for the costs of litigation without a letter of credit, among other factors.

The proposed project is for an operation of public concern (fermentation tanks) in the Valley and triggers Best Available Control Technology (BACT). Therefore, the District determined that an Indemnification Agreement and Letter of Credit for the ATC project is required.

IX. RECOMMENDATION

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue Authorities to Construct N-1237-490-2 through '-497-2, '-498-3 through '-565-3, '-568-2, '-569-2, '-609-1 through '-660-1, '-662-1 through '-669-1, '-697-1 through '-724-1, and '-764-1 through '-775-1 subject to the permit conditions on the attached draft Authorities to Construct in Appendix J.

X. BILLING INFORMATION

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description[3]	Annual Fee
N-1237-490-3 through '-501-3	3020-05-C	35,000 gallons	$142
N-1237-502-3 through '-517-3	3020-05-D	70,000 gallons	$194
N-1237-518-3 through '-533-3	3020-05-E	105,000 gallons	$258
N-1237-534-3 through '-549-3	3020-05-E	215,000 gallons	$258
N-1237-550-3 through '-565-3	3020-05-E	350,000 gallons	$258
N-1237-568-2 through '-569-2	3020-05-F	640,000 gallons	$316
N-1237-609-1 through '-616-1	3020-05-C	35,000 gallons	$142
N-1237-617-1 through '-644-1	3020-05-E	105,000 gallons	$258
N-1237-645-1 through '-660-1	3020-05-E	215,000 gallons	$258
N-1237-662-1 through '-669-1	3020-05-C	35,000 gallons	$142
N-1237-697-1 through '-700-1	3020-05-C	35,000 gallons	$142
N-1237-701-1 through '-708-1	3020-05-E	350,000 gallons	$258
N-1237-709-1 through '-716-1	3020-05-F	629,000 gallons	$316
N-1237-717-1 through '-724-1	3020-05-C	35,000 gallons	$142
N-1237-764-1 through '-767-1	3020-05-E	215,000 gallons	$258
N-1237-768-1 through '-775-1	3020-05-E	350,000 gallons	$258

Appendices:

Appendix A, Current Permits to Operate
Appendix B, Winery Tank Equipment Descriptions
Appendix C, FYI-114 – VOC Emission Factors for Wine Fermentation and Storage Tanks
Appendix D, Pre-Project Potential Wine Fermentation and Storage VOC Emission Calculations
Appendix E, Baseline Actual VOC Emission and Unused Baseline Capacity Calculations
Appendix F, BACT Guideline 5.4.14 and Fermentation Tanks Top Down VOC BACT Analysis
Appendix G, BACT Guideline 5.4.13 and Storage Tanks Top Down VOC BACT Analysis
Appendix H, E & J Gallo Winery Statewide Compliance Certification
Appendix I, Quarterly Net Emissions Change (QNEC) Calculations
Appendix J, Draft ATC's

[3] All of the winery tanks being modified within this project fall under fee schedule 3020-05, Stationary Containers. The equipment description for a majority of the tanks in this project lists the actual as-built gauge volume of each tank. It has been verified that gauge volume and nominal volume for all tanks still fall under the same fee schedule sub-category. Therefore, in order to streamline the annual permit fee table below, the fee description listed will only reflect the nominal size of each tank.

Appendix A

Current Permits to Operate

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-490-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 311) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-491-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 312) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-492-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 313) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-493-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 314) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-494-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 315) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-495-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 316) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-496-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 317) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-497-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON STEEL WINE STORAGE TANK (TANK 318) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-498-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,621 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 351) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 35,621 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 101 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 263 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-499-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,537 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 352) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 35,537 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 101 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 263 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-500-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,560 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 353) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 35,560 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 101 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 263 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-501-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,494 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 354) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 35,494 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 101 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 263 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-502-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
69,409 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 701) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 69,409 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-503-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
71,771 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 702) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 71,771 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-504-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,241 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 703) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,241 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-505-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,316 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 704) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,316 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-506-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,151 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 705) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,151 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-507-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,260 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 706) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,260 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-508-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,240 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 707) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,240 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-509-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,322 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 708) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,322 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-510-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,204 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 709) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,204 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-511-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,136 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 710) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,136 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-512-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,097 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 711) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,097 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-513-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,204 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 712) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,204 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-514-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,314 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 713) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,314 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-515-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,173 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 714) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,173 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-516-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,179 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 715) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,179 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-517-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
70,090 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 716) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 70,090 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 202 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 350 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-518-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,185 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1401) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,185 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-519-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,467 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1402) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,467 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-520-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,400 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1403) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,400 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-521-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,475 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1404) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,475 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-522-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,400 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1405) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,400 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-523-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,337 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1406) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,337 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-524-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,582 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1407) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,582 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-525-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,480 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1408) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,480 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-526-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,444 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1409) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,444 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-527-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,397 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1410) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,397 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-528-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,473 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1411) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,473 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-529-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,529 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1412) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,529 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-530-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,519 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1413) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,519 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-531-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,487 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1414) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,487 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-532-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,617 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1415) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,617 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-533-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,452 GALLON STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1416) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 105,452 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 303 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,050 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-534-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,381 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2101) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,381 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-535-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,552 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2102) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,552 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-536-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,057 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2103) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,057 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-537-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,060 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2104) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,060 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-538-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,521 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2105) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,521 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-539-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,411 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2106) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,411 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-540-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,998 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2107) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,998 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-541-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,001 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2108) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,001 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-542-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,533 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2109) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,533 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-543-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,475 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2110) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,475 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-544-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,173 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2111) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,173 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-545-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,467 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2112) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,467 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-546-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,969 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2113) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,969 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-547-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,116 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2114) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,116 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-548-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,116 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2115) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,116 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-549-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,056 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2116) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 215,056 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 621 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 3,225 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-550-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
366,253 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3201) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 366,253 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-551-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
364,297 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3202) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 364,297 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-552-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
361,944 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3203) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 361,944 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-553-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
366,028 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3204) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 366,028 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-554-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
366,239 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3205) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 366,239 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-555-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
363,823 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3206) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 363,823 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-556-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
359,494 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3207) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 359,494 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-557-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
365,883 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3208) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 365,883 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-558-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
363,506 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3209) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 363,506 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-559-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
364,454 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3210) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 364,454 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-560-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
367,931 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3211) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 367,931 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-561-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
366,267 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3212) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 366,267 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-562-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
365,018 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3213) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 365,018 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-563-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
361,289 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3214) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 361,289 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-564-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
364,679 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3215) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 364,679 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-565-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
361,209 GALLON STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3216) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 361,209 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage, calculated on a twelve month rolling basis, in this tank shall not exceed 506 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of wine fermented. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from wine fermentation, calculated on a twelve month rolling basis, in this tank shall not exceed 1,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Annual VOC emissions from wine fermentation in this tank, calculated on a twelve month rolling basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume of each wine movement; and the calculated 12 month rolling wine ethanol content and throughput rate for storage operations and VOC emission rate for fermentation operations (ethanol percentage by volume, gallons and lb-VOC per 12 month rolling period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

16. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

17. If the emissions, throughput or ethanol content calculated for any rolling 12-month period exceeds the annual emissions, throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-568-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
640,000 GALLON NOMINAL (647,701 GALLON GAUGE) STEEL WINE STORAGE TANK (TANK 6203) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 640,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,480,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-569-1 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
640,000 GALLON NOMINAL (647,729 GALLON GAUGE) STEEL WINE STORAGE TANK (TANK 6204) WITH PRESSURE/VACUUM VALVE AND INSULATION

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 640,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,480,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

12. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-609-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-610-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-611-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-612-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-613-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-614-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-615-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-616-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 35,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 350,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-617-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-618-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-619-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-620-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-621-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-622-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-623-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-624-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-625-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-626-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-627-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-628-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-629-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-630-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-631-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-632-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-633-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-634-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-635-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-636-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-637-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-638-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-639-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-640-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-641-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-642-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-643-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-644-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
105,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The daily wine storage throughput of this tank shall not exceed 105,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 2,100,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
8. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-645-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-646-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-647-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-648-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-649-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-650-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-651-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-652-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-653-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-654-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-655-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-656-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-657-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-658-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-659-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-660-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
215,000 GALLON, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

PERMIT UNIT REQUIREMENTS

1. When use for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Ethanol content of wine stored in this tank shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The daily wine storage throughput of this tank shall not exceed 215,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual wine storage throughput of this tank, calculated on a 12 month rolling basis, shall not exceed 4,300,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The daily VOC emissions rate for wine fermentation shall not exceed 1.62 pounds per 1,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The annual VOC emissions from wine fermentation in this tank, calculated on a 12 month rolling basis, shall be determined by the following formula: Annual Fermentation VOC emissions = 1.6 lb-VOC/1,000 gallons x Annual White Wine Production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The annual VOC emissions from both wine fermentation and wine storage in this tank, calculated on a 12 month rolling basis, shall not exceed 1,617 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of the calculated 12 month rolling wine storage throughput rate (gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

14. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

15. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; and the calculated 12 month rolling VOC emission rate (lb-VOC per 12 month rolling period, calculated monthly). [District Rules 1070, 2201, 4694] Federally Enforceable Through Title V Permit

16. If the emissions or throughput calculated for any rolling 12-month period exceeds the annual emissions or throughput limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emission or throughput limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and throughput are below the annual emissions and throughput limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-662-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 319) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-663-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 320) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-664-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 321) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-665-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 322) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-666-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 323) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-667-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 324) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-668-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 325) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-669-0 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 326) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
2. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
4. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-697-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 363) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 25 lb, 2nd quarter - 25 lb, 3rd quarter - 25 lb, and fourth quarter - 26 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 12.08 feet in diameter and 40 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-697-0 Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 700,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-698-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 364) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 25 lb, 2nd quarter - 25 lb, 3rd quarter - 25 lb, and fourth quarter - 26 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 12.08 feet in diameter and 40 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-698-0: Dec 23 2013 8:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 700,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-699-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 365) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 25 lb, 2nd quarter - 25 lb, 3rd quarter - 25 lb, and fourth quarter - 26 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 12.08 feet in diameter and 40 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-699-0 : Dec 20 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 700,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-700-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 366) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 25 lb, 2nd quarter - 25 lb, 3rd quarter - 25 lb, and fourth quarter - 26 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 12.08 feet in diameter and 40 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-700-0 : Dec 23 2013 9:18AM -- GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 700,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-701-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
350,000 GALLON NOMINAL (353,996 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3217) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-702-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
350,000 GALLON NOMINAL (355,941 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3218) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-703-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3219) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 126 lb, and fourth quarter - 127 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-703-0 Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-704-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3220) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 126 lb, and fourth quarter - 127 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-704-0 Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-705-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
350,000 GALLON NOMINAL (356,642 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3221) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-706-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
350,000 GALLON NOMINAL (356,435 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3222) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-707-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3223) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 126 lb, and fourth quarter - 127 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-707-0 : Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-708-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3224) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 126 lb, and fourth quarter - 127 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-708-0 : Dec 23 2013 9:18AM -- GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-709-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
629,000 GALLON NOMINAL (646,626 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6201) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1237-710-2 **EXPIRATION DATE:** 09/30/2015

EQUIPMENT DESCRIPTION:
629,000 GALLON NOMINAL (646,295 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6202) WITH PRESSURE/VACUUM VALVE

PERMIT UNIT REQUIREMENTS

1. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
3. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
5. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
9. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-711-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6203) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 160 lb, 2nd quarter - 161 lb, 3rd quarter - 161 lb, and fourth quarter - 161 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 51 feet in diameter and 41 feet in height with a proposed volume of 629,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-711-0: Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-712-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6204) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 160 lb, 2nd quarter - 161 lb, 3rd quarter - 161 lb, and fourth quarter - 161 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 51 feet in diameter and 41 feet in height with a proposed volume of 629,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-712-0 : Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-713-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6205) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 160 lb, 2nd quarter - 161 lb, 3rd quarter - 161 lb, and fourth quarter - 161 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 51 feet in diameter and 41 feet in height with a proposed volume of 629,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-713-0 Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-714-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6206) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 160 lb, 2nd quarter - 161 lb, 3rd quarter - 161 lb, and fourth quarter - 161 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 51 feet in diameter and 41 feet in height with a proposed volume of 629,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-714-0 Dec 23 2013 9:16AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-715-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6207) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 160 lb, 2nd quarter - 161 lb, 3rd quarter - 161 lb, and fourth quarter - 161 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 51 feet in diameter and 41 feet in height with a proposed volume of 629,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-715-0 : Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-716-0 **ISSUANCE DATE:** 12/23/2013

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6208) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 160 lb, 2nd quarter - 161 lb, 3rd quarter - 161 lb, and fourth quarter - 161 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4025-1, S-4050-1, S-3807-1, and S-3805-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 51 feet in diameter and 41 feet in height with a proposed volume of 629,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. This wine storage tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-1237-716-0 : Dec 23 2013 9:18AM – GARCIAJ : Joint Inspection NOT Required

6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
8. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
9. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
10. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
11. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201]
12. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,450,000 gallons per year. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-717-0 **ISSUANCE DATE:** 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 327) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-717-0: Nov 20 2014 2:20PM – TOMS : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-718-0 **ISSUANCE DATE:** 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 328) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-718-0 : Nov 26 2014 2:20PM – TOMS : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-719-0 **ISSUANCE DATE:** 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 329) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-719-0 : Nov 26 2014 2:20PM – TOMS : Next Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-720-0 **ISSUANCE DATE:** 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 330) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-1237-P20-0 : Nov 26 2014 2:20PM – TOMS : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-721-0 **ISSUANCE DATE:** 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 331) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-721-0 : Nov 26 2014 2:20PM – TOMB : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-722-0 **ISSUANCE DATE:** 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 332) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-722-0: Nov 26 2014 2:20PM -- TOMS : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-723-0

ISSUANCE DATE: 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 333) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-723-0 : Nov 26 2014 2:20PM – TOMS : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-724-0

ISSUANCE DATE: 11/26/2014

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 334) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantities of emissions: 1st quarter - 6 lb, 2nd quarter - 6 lb, 3rd quarter - 6 lb, and fourth quarter - 7 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4160-1, C-1229-1, S-3805-1, S-4126-1, S-4116-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 19.5 feet in diameter and 16 feet in height with a proposed volume of 35,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-724-0 : Nov 26 2014 2:20PM – TOMS : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 175,000 gallons per year. [District Rule 2201]
12. The annual VOC emissions from wine storage in this tank, calculated on a twelve month rolling basis, shall not exceed 25 pounds. [District Rule 2201]
13. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
15. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
16. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-764-0

ISSUANCE DATE: 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2133) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 155 lb, 2nd quarter - 155 lb, 3rd quarter - 156 lb, and fourth quarter - 156` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 30.17 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-1237-764-0 Jan 14 2015 4:32PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,300,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-765-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2134) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 155 lb, 2nd quarter - 155 lb, 3rd quarter - 156 lb, and fourth quarter - 156` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 30.17 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-765-0 Jan 14 2015 4:32PM – GARCIAJ : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,300,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-766-0

ISSUANCE DATE: 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2137) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 155 lb, 2nd quarter - 155 lb, 3rd quarter - 156 lb, and fourth quarter - 156` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 30.17 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-1237-766-0 : Jan 14 2015 4:32PM – GARCIAJ : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,300,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-767-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2138) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 155 lb, 2nd quarter - 155 lb, 3rd quarter - 156 lb, and fourth quarter - 156` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 30.17 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-767-0 Jan 14 2015 4:32PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 4,300,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-768-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3225) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-768-0 Jan 14 2015 1:32PM -- GARCIAJ : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-769-0

ISSUANCE DATE: 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3226) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-769-0 Jan 14 2015 4:32PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-770-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3227) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-770-0 Jan 14 2015 4:32PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-771-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3228) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-771-0 Jan 14 2015 4:32PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-772-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3229) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-772-0 Jan 14 2015 4:33PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-773-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3230) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-773-0 : Jan 14 2015 4:33PM – GARCIAJ : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-774-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3231) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-774-0 : Jan 14 2015 4:33PM -- GARCIAJ : Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-775-0 **ISSUANCE DATE:** 01/14/2015

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3232) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 126 lb, 2nd quarter - 126 lb, 3rd quarter - 127 lb, and fourth quarter - 127` lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 4/21/11). [District Rule 2201]
3. ERC Certificate Numbers S-4260-1, C-1229-1, S-4354-1, S-4126-1, S-4381-1, S-4306-1 and/or S-4414-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-775-0 : Jan 14 2015 4:33PM – GARCIAJ Joint Inspection NOT Required

6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a twelve month rolling basis, shall not exceed 15 percent by volume. [District Rule 2201]
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]
11. The maximum wine storage throughput in this tank, calculated on a twelve month rolling basis, shall not exceed 3,500,000 gallons per year. [District Rule 2201]
12. The operator shall determine and record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
14. The operator shall maintain records of the calculated 12 month rolling wine ethanol content and storage and fermentation throughput rate (ethanol percentage by volume and gallons per 12 month rolling period, calculated monthly). [District Rule 2201]
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201]
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694]

Appendix B

Winery Tank Equipment Descriptions

Permit	Equipment Description
N-1237-490	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 311) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-491	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 312) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-492	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 313) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-493	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 314) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-494	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 315) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-495	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 316) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-496	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 317) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-497	35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 318) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-498	35,000 GALLON NOMINAL (35,621 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 351) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-499	35,000 GALLON NOMINAL (35,537 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 352) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-500	35,000 GALLON NOMINAL (35,560 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 353) WITH PRESSURE/VACUUM VALVE AND INSULATION.
N-1237-501	35,000 GALLON NOMINAL (35,494 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 354) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-502	70,000 GALLON NOMINAL (69,409 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 701) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-503	70,000 GALLON NOMINAL (71,771 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 702) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-504	70,000 GALLON NOMINAL (70,241 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 703) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-505	70,000 GALLON NOMINAL (70,316 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 704) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-506	70,000 GALLON NOMINAL (70,151 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 705) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-507	70,000 GALLON NOMINAL (70,260 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 706) WITH PRESSURE/VACUUM VALVE AND INSULATION

Permit	Equipment Description
N-1237-508	70,000 GALLON NOMINAL (70,240 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 707) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-509	70,000 GALLON NOMINAL (70,322 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 708) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-510	70,000 GALLON NOMINAL (70,204 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 709) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-511	70,000 GALLON NOMINAL (70,136 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 710) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-512	70,000 GALLON NOMINAL (70,097 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 711) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-513	70,000 GALLON NOMINAL (70,204 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 712) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-514	70,000 GALLON NOMINAL (70,314 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 713) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-515	70,000 GALLON NOMINAL (70,173 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 714) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-516	70,000 GALLON NOMINAL (70,179 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 715) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-517	70,000 GALLON NOMINAL (70,090 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 716) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-518	105,000 GALLON NOMINAL (105,185 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1401) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-519	105,000 GALLON NOMINAL (105,467 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1402) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-520	105,000 GALLON NOMINAL (105,400 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1403) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-521	105,000 GALLON NOMINAL (105,475 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1404) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-522	105,000 GALLON NOMINAL (105,400 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1405) WITH PRESSURE/VACUUM VALVE AND INSULATION

Permit	Equipment Description
N-1237-523	105,000 GALLON NOMINAL (105,337 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1406) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-524	105,000 GALLON NOMINAL (105,582 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1407) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-525	105,000 GALLON NOMINAL (105,480 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1408) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-526	105,000 GALLON NOMINAL (105,444 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1409) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-527	105,000 GALLON NOMINAL (105,397 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1410) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-528	105,000 GALLON NOMINAL (105,473 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1411) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-529	105,000 GALLON NOMINAL (105,529 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1412) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-530	105,000 GALLON NOMINAL (105,519 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1413) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-531	105,000 GALLON NOMINAL (105,487 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1414) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-532	105,000 GALLON NOMINAL (105,617 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1415) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-533	105,000 GALLON NOMINAL (105,452 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1416) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-534	215,000 GALLON NOMINAL (215,381 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2101) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-535	215,000 GALLON NOMINAL (215,552 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2102) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-536	215,000 GALLON NOMINAL (215,057 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2103) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-537	215,000 GALLON NOMINAL (215,060 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2104) WITH PRESSURE/VACUUM VALVE AND INSULATION

Permit	Equipment Description
N-1237-538	215,000 GALLON NOMINAL (215,521 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2105) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-539	215,000 GALLON NOMINAL (215,411 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2106) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-540	215,000 GALLON NOMINAL (215,998 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2107) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-541	215,000 GALLON NOMINAL (215,001 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2108) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-542	215,000 GALLON NOMINAL (215,533 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2109) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-543	215,000 GALLON NOMINAL (215,475 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2110) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-544	215,000 GALLON NOMINAL (215,173 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2111) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-545	215,000 GALLON NOMINAL (215,467 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2112) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-546	215,000 GALLON NOMINAL (215,969 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2113) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-547	215,000 GALLON NOMINAL (215,116 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2114) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-548	215,000 GALLON NOMINAL (215,116 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2115) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-549	215,000 GALLON NOMINAL (215,056 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2116) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-550	350,000 GALLON NOMINAL (366,253 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3201) WITH PRESSURE/VACUUM VALVE AND INSULATION

Permit	Equipment Description
N-1237-551	350,000 GALLON NOMINAL (364,297 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3202) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-552	350,000 GALLON NOMINAL (361,944 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3203) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-553	350,000 GALLON NOMINAL (366,028 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3204) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-554	350,000 GALLON NOMINAL (366,239 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3205) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-555	350,000 GALLON NOMINAL (363,823 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3206) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-556	350,000 GALLON NOMINAL (359,494 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3207) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-557	350,000 GALLON NOMINAL (365,883 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3208) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-558	350,000 GALLON NOMINAL (363,506 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3209) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-559	350,000 GALLON NOMINAL (364,454 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3210) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-560	350,000 GALLON NOMINAL (367,931 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3211) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-561	350,000 GALLON NOMINAL (366,267 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3212) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-562	350,000 GALLON NOMINAL (365,018 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3213) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-563	350,000 GALLON NOMINAL (361,289 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3214) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-564	350,000 GALLON NOMINAL (364,679 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3215) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-565	350,000 GALLON NOMINAL (361,209 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3216) WITH PRESSURE/VACUUM VALVE AND INSULATION

Permit	Equipment Description
N-1237-568	640,000 GALLON NOMINAL (647,701 GALLON GAUGE) STEEL WINE STORAGE TANK (TANK 6203) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-569	640,000 GALLON NOMINAL (647,729 GALLON GAUGE) STEEL WINE STORAGE TANK (TANK 6204) WITH PRESSURE/VACUUM VALVE AND INSULATION
N-1237-609	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-610	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-611	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-612	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-613	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-614	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-615	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-616	35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALV
N-1237-617	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-618	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-619	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-620	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-621	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-622	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-623	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-624	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-625	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-626	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-627	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-628	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-629	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-630	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-631	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-632	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-633	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-634	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-635	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-636	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-637	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-638	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-639	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-640	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-641	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-642	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-643	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-644	105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-645	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-646	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-647	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-648	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-649	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-650	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-651	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-652	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-653	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-654	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-655	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-656	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-657	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-658	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-659	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-660	215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE
N-1237-662	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 319) WITH PRESSURE/VACUUM VALVE
N-1237-663	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 320) WITH PRESSURE/VACUUM VALVE
N-1237-664	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 321) WITH PRESSURE/VACUUM VALVE

Permit	Equipment Description
N-1237-663	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 320) WITH PRESSURE/VACUUM VALVE
N-1237-664	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 321) WITH PRESSURE/VACUUM VALVE
N-1237-665	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 322) WITH PRESSURE/VACUUM VALVE
N-1237-666	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 323) WITH PRESSURE/VACUUM VALVE
N-1237-667	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 324) WITH PRESSURE/VACUUM VALVE
N-1237-668	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 325) WITH PRESSURE/VACUUM VALVE
N-1237-669	35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 326) WITH PRESSURE/VACUUM VALVE
N-1237-697	35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 363) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT
N-1237-698	35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 364) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT
N-1237-699	35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 365) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT
N-1237-700	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 366) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT
N-1237-701	350,000 GALLON NOMINAL (353,996 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3217) WITH PRESSURE/VACUUM VALVE
N-1237-702	350,000 GALLON NOMINAL (355,941 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3218) WITH PRESSURE/VACUUM VALVE
N-1237-703	350,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3219) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT
N-1237-704	350,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3220) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT

Permit	Equipment Description
N-1237-705	350,000 GALLON NOMINAL (356,642 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3221) WITH PRESSURE/VACUUM VALVE
N-1237-706	350,000 GALLON NOMINAL (356,435 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3222) WITH PRESSURE/VACUUM VALVE
N-1237-707	350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3223) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT
N-1237-708	350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3224) WITH PRESSURE/VACUUM VALVE
N-1237-709	629,000 GALLON NOMINAL (646,626 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6201) WITH PRESSURE/VACUUM VALVE
N-1237-710	629,000 GALLON NOMINAL (646,295 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6202) WITH PRESSURE/VACUUM VALVE
N-1237-711	629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6203) WITH PRESSURE/VACUUM VALVE
N-1237-712	629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6204) WITH PRESSURE/VACUUM VALVE
N-1237-713	629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6205) WITH PRESSURE/VACUUM VALVE
N-1237-714	629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6206) WITH PRESSURE/VACUUM VALVE
N-1237-715	629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6207) WITH PRESSURE/VACUUM VALVE
N-1237-716	629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6208) WITH PRESSURE/VACUUM VALVE
N-1237-717	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 327) WITH PRESSURE/VACUUM VALVE
N-1237-718	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 328) WITH PRESSURE/VACUUM VALVE
N-1237-719	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 329) WITH PRESSURE/VACUUM VALV
N-1237-720	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 330) WITH PRESSURE/VACUUM VALVE
N-1237-721	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 331) WITH PRESSURE/VACUUM VALVE,
N-1237-722	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 332) WITH PRESSURE/VACUUM VALVE
N-1237-723	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 333) WITH PRESSURE/VACUUM VALVE
N-1237-724	35,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 334) WITH PRESSURE/VACUUM VALVE
N-1237-764	215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2133) WITH PRESSURE/VACUUM VALVE

Permit	Equipment Description
N-1237-765	215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2134) WITH PRESSURE/VACUUM VALVE
N-1237-766	215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2137) WITH PRESSURE/VACUUM VALVE
N-1237-767	215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2138) WITH PRESSURE/VACUUM VALVE
N-1237-768	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3225) WITH PRESSURE/VACUUM VALVE
N-1237-769	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3226) WITH PRESSURE/VACUUM VALVE
N-1237-770	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3227) WITH PRESSURE/VACUUM VALVE
N-1237-771	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3228) WITH PRESSURE/VACUUM VALVE
N-1237-772	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3229) WITH PRESSURE/VACUUM VALVE
N-1237-773	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3230) WITH PRESSURE/VACUUM VALVE
N-1237-774	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3231) WITH PRESSURE/VACUUM VALVE
N-1237-775	350,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3232) WITH PRESSURE/VACUUM VALVE

Appendix C

FYI 114 – VOC Emission Factors for Wine Fermentation and Storage Tanks

FYI-114

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

DATE: March 8, 2007 (Revised 09/14/09) (Revised 8/10/11) (Revised 6/13/12)

TO: Permit Services Staff

FROM: Dennis Roberts

SUBJECT: VOC Emission Factors for Wine Fermentation and Storage Tanks

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Winery tank operations generally consist of two separate emissions units; 1) fermentation and 2) storage of wine and spirits. Any particular tank may be permitted to perform one or both of these operations. The emissions from each emission unit are appropriately combined to yield the Potential to Emit for the tank (permit unit).

Emissions from fermentation operations are estimated using emission factors which have been developed based on a recognized fermentation model and are presented herein. For wine storage operations, emissions can be determined in general by modeling the storage tank operation using the EPA's Tanks 4.0 software (modeling procedures and an ethanol/water data base have been established as described in FYI-295 (*Modeling Emissions from Wine Storage Tanks)*. However, the majority of wine storage tanks located in the District are insulated storage tanks which do not have a requirement for refrigeration (ambient storage temperature). For this classification of tank the storage emission factor, as calculated by the Tanks 4.0 model, is a function of ethanol content only. For this case the tabular emission factors presented herein are applicable (note that storage tanks which are un-insulated and/or which have NSR limits on the tank operating temperature should be estimated by the emissions modeling per FYI-295).

Wine Storage Tanks

Wine storage tanks perform two functions in the winery:

- Facilitation of post-fermentation processing operations such as racking, filtration, malolactic fermentation and bottling. In this role, the typical storage tank is filled and emptied several times per year with the wine being transferred from tank to tank. Many of these operations occur prior to chilling of the wine. Emissions from such operations are "working losses" which occur as a result of the displacement of the vapor space of the tank into the atmosphere during the filling operations. For insulated tanks (or tanks installed in a climate-controlled building), working losses are a function only of the ethanol content, the ambient temperature and the tank throughput.

- Static storage of wine between processing operations up to the final operation of bottling. In this operation, a common objective is to avoid oxidation of the wine by both minimizing the wine temperature and the exposure of the wine to air. In such cases, the wine may be maintained at a temperature below ambient, often in the range of 35-40 °F, however, since the tank cannot be always maintained at this temperature due to processing considerations, the lower temperatures are not an NSR condition on the permit . Also, the tanks are typically maintained at as high a liquid level as possible to minimize contact with oxygen. Emissions from static storage are

"breathing losses" which are the result of diurnal heating and cooling caused by the effect of daily variations in atmospheric conditions on the contents of the tank. For a well-insulated tank, equipped with a pressure/vacuum relief valve per the requirements of District Rule 4694, breathing losses are considered to be negligible since the insulation serves to maintain a relatively uniform temperature inside the tank while the pressure/vacuum valve serves to contain small internal variations, preventing escape of vapor to the atmosphere.

Table 1 presents emission factors for wine and spirits storage in ambient temperature tanks (non-refrigerated), equipped with insulation and/or located in a climate-controlled building. The tabular values have been developed using the District's emissions modeling procedure for wine and spirits tanks (see FYI-295). As shown, different emission factors are presented for tanks located in the three different regions of the District based upon higher ambient temperatures in the southern part of the Central Valley. All factors represent working losses only since breathing losses are considered negligible as discussed above. Emission factors for concentrations not listed in Table 1 may be interpolated from the table.

Table 1: Emission Factors for Wine and Spirits Storage Tanks by Region in the San Joaquin Valley lb-VOC per 1,000 gallons of throughput

Applicability:	1. Vertical Fixed-Roof tank, insulated or located in climate-controlled building 2. Ambient temperature storage					
	Southern Region		Central Region		Northern Region	
Vol %	Annual	Daily	Annual	Daily	Annual	Daily
2	0.016	0.029	0.015	0.027	0.014	0.024
4	0.033	0.062	0.032	0.057	0.030	0.051
6	0.052	0.099	0.050	0.092	0.047	0.081
8	0.074	0.141	0.071	0.130	0.067	0.116
10	0.098	0.187	0.094	0.173	0.088	0.154
12	0.125	0.239	0.120	0.221	0.112	0.196
14	0.143	0.273	0.137	0.252	0.128	0.223
16	0.159	0.302	0.153	0.280	0.143	0.248
18	0.176	0.334	0.169	0.310	0.159	0.275
20	0.195	0.368	0.187	0.341	0.175	0.303
22	0.215	0.404	0.207	0.375	0.194	0.333
24	0.237	0.443	0.227	0.412	0.213	0.366
26	0.251	0.470	0.242	0.436	0.227	0.388
28	0.264	0.494	0.254	0.458	0.238	0.408
30	0.278	0.518	0.267	0.481	0.251	0.428
32	0.293	0.544	0.281	0.506	0.264	0.450
34	0.308	0.572	0.296	0.531	0.278	0.473
36	0.324	0.600	0.312	0.559	0.293	0.498
38	0.335	0.620	0.323	0.577	0.303	0.514
40	0.347	0.640	0.334	0.595	0.313	0.530
42	0.358	0.660	0.345	0.614	0.324	0.546
44	0.371	0.681	0.357	0.634	0.335	0.565
46	0.384	0.703	0.370	0.655	0.348	0.584
48	0.396	0.724	0.381	0.674	0.359	0.602
50	0.405	0.738	0.390	0.688	0.367	0.615
52	0.415	0.754	0.400	0.703	0.376	0.628
54	0.425	0.770	0.410	0.718	0.386	0.642
56	0.436	0.788	0.420	0.734	0.396	0.657
58	0.447	0.805	0.431	0.751	0.406	0.673
60	0.455	0.818	0.438	0.764	0.413	0.684
62	0.462	0.832	0.446	0.777	0.420	0.695
64	0.471	0.847	0.454	0.790	0.427	0.708
66	0.479	0.863	0.462	0.805	0.435	0.721
68	0.489	0.879	0.471	0.820	0.443	0.735
70	0.497	0.896	0.479	0.836	0.451	0.748
72	0.507	0.914	0.488	0.853	0.460	0.763
74	0.517	0.933	0.498	0.871	0.468	0.779
76	0.527	0.954	0.508	0.890	0.478	0.796
78	0.539	0.976	0.519	0.910	0.489	0.814
80	0.552	1.000	0.531	0.932	0.500	0.833
82	0.566	1.025	0.545	0.955	0.513	0.855
84	0.581	1.052	0.559	0.981	0.526	0.877
86	0.598	1.083	0.576	1.010	0.542	0.903
88	0.617	1.120	0.595	1.044	0.559	0.934
90	0.639	1.161	0.616	1.082	0.579	0.967
92	0.663	1.206	0.639	1.124	0.601	1.004
94	0.694	1.261	0.669	1.175	0.629	1.050
96	0.742	1.339	0.715	1.249	0.673	1.118
98	0.786	1.409	0.757	1.315	0.714	1.179
100	0.838	1.534	0.807	1.437	0.762	1.278

For purposes of calculating actual annual emissions, the annual data in Table 1 have been curve-fitted based on an equation of the form $E_f = ap^2 + bp + c$, where p = vol% ethanol (e.g., 20% = 0.20). The constants for the equation are as follows:

Constants for Emission Factor Correlation $E_f = ap^2 + bp + c$ p = volume percentage ethanol			
Southern Region			
Concentration Range	**a**	**b**	**c**
0 to 24%	-0.45139	1.0958	0
>24 to 66%	-0.47357	1.0088	0.019486
>66% to 92%	1.5279	-1.7467	0.97149
>92% to 100%	6.7857	-10.819	4.8713
Central Region			
Concentration Range	**a**	**b**	**c**
0 to 24%	-0.45139	1.0542	0
>24 to 66%	-0.45117	0.96968	0.018554
>66% to 92%	1.5254	-1.7662	0.96812
>92% to 100%	6.4286	-10.223	4.6016
Northern Region			
Concentration Range	**a**	**b**	**c**
0 to 24%	-0.38194	0.97917	0
>24 to 66%	-0.42159	0.91316	0.016237
>66% to 92%	1.3799	-1.5774	0.87906
>92% to 100%	6.6071	-10.651	4.8061

The mathematical correlation for concentrations up to 24% provides a slightly conservative estimate of the emission factor relative to the data in Table 1 based on smoothing the impact of the linear interpolation process employed in development of the ethanol/water data base used for modeling wine tank emissions in EPA Tanks 4.0. Mathematical correlations for concentrations greater than 24% are based on a least square analysis of the data in Table 1.

Use of Table I and correlations to estimate emissions insulated wine storage tank subject to ambient temperature is demonstrated by the following examples:

Example 1 (wine storage tank with daily and annual throughput limits and maximum ethanol content) – estimate the potential to emit for an insulated 100,000 gallon nominal capacity steel storage tank to store wine with maximum concentration of 14 vol% ethanol . Maximum daily throughput is one tank turn or 100,000 gallons/day. Maximum annual throughput will be 600,000 gallons per year. The tank will be installed in a facility located in the Southern Region.

For a storage tank located in the Southern Region and handling up to 14% ethanol, the annual emission factor is 0.143 lb-VOC/1000 gallons throughput and the daily emission factor is 0.273 lb-VOC/1000 gallons throughput.

Daily PE = 100,000 gallons/day x 0.273 lb-VOC/1000 gallons = 27.3 lb-VOC/day

Annual PE = 600,000 gallons/year x 0.143 lb-VOC/1000 gallons = 86 lb-VOC/year

DEL conditions for this example would be:

- *Ethanol content of wine in this tank shall not exceed 14.0 percent by volume. [District Rule 2201]*
- *Tank throughput shall not exceed either of the following limits: 100,000 gallons in any one day or 600,000 gallons per year. [District Rule 2201]*

Example 2 (wine and spirits storage tank subject to a daily throughput limit and an SLC limit on annual emissions)– – estimate the potential to emit for an insulated 100,000 gallon nominal capacity steel storage tank to store spirits with maximum concentration of 80 vol% ethanol. Maximum allowed annual emissions for the tanks in the SLC are 10,000 lb/year. Maximum daily throughput is one tank turn or 100,000 gallons/day. The tank will be installed in a facility located in the Northern Region.

For a storage tank located in the Northern Region and handling up to 80% ethanol, the daily emission factor is 0.833 lb-VOC/1000 gallons throughput. Since the annual emissions are constrained by the SLC, an annual emission factor is not needed for the PE calculation but will be placed on the permit for purposes of demonstrating annual compliance on an ongoing basis. Since the ethanol concentration can vary from 0% to 80%, three separate correlation equations are required to cover the potential range:

For concentration p = 0 – 24%: $E_f = ap^2 + bp + c$

a = -0.38194
b = 0.97917
c = 0

For concentration p = 24% < p < 66%: $E_f = ap^2 + bp + c$

a = -0.42159
b = 0.91316
c = 0.016237

For concentration p = 66% < p < 80%: $E_f = ap^2 + bp + c$

a = 1.3799
b = -1.5774
c = 0.87906

Daily PE = 100,000 gallons/day x 0.833 lb-VOC/1000 gallons = 83.3 lb-VOC/day

DEL conditions for this example would be:

- *Ethanol content of wine or spirits in this tank shall not exceed 80.0 percent by volume. [District Rule 2201]*
- *Tank throughput shall not exceed 100,000 gallons in any one day. [District Rule 2201]*
- *Combined annual VOC emissions from all wine storage operations under permit units X-XXXX-XXX through X-XXXX-XXX shall not exceed 10,000 pounds per year. [District Rule 2201]*
- *Combined annual VOC emissions from wine storage operations under permit units X-XXXX-XXX through X-XXXX-XXX shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]*
- *The annual VOC wine storage emission factor for each wine or spirits ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. For concentrations up to and including 24 volume %,* a = -0.38194, b = 0.97917 and c = 0. *For concentrations greater than 24 volume % up to and including 66 volume% ,* a = -0.42159, b = 0.91316 and c = 0.016237. *For concentrations greater than 66 volume % up to and including 80 volume %,* a = 1.3799, b = -1.5774 and c = 0.87906. *[District Rule 2201]*

Wine Fermentation Tanks

During the wine fermentation process, sugar in the grape juice reacts with yeast to form alcohol (ethanol) and carbon dioxide (CO_2) gas. Ethanol is emitted into the atmosphere through evaporation. According to Williams and Boulton[1], the only important mechanism for ethanol loss is equilibrium evaporation into the escaping CO_2 stream. The physical entrainment of ethanol droplets in the CO_2 gas is insignificant in modern enclosed fermentation vessels. These researchers' model indicates that as fermentation temperature increases, ethanol loss increases exponentially. Since red wines are fermented at significantly higher temperatures than white wine, a different emission factor is required for each case.

Annual Fermentation Emission Factors

The California Air Resources Board (CARB) has established annual emission factors for fermentation of both red and white wines, based on the computer model developed by Williams and Boulton. The emission factors were developed for purposes of emission

[1] L.A. Williams and R. Boulton, Modeling and Prediction of Evaporative Ethanol Loss During Wine Fermentation, American Journal of Enology and Vitriculture, 32:234-242, (1983).

inventory estimation and represent a typical wine fermentation operation based on average fermentation temperatures and average initial sugar concentrations (°Brix) and are presented in Emissions Inventory Procedural Manual, Section 5.1, Air Resources Board, 1997. These factors have been adopted by the District in Rule 4694, *Wine Fermentation and Storage Tanks*. The established factors are as follows:

Red Wine Fermentation:	6.2 lb-VOC/1000 gallons fermented per year (78 °F fermentation temperature, 21.8 °Brix)
White Wine Fermentation:	2.5 lb-VOC/1000 gallons fermented per year (58 °F fermentation temperature, 20.4 °Brix)

Daily Fermentation Emission Factors

The District has developed factors for daily Potential to Emit using the previously-referenced research by Williams and Boulton (see Appendix A). To ensure the factors represent true Potential to Emit, the daily emission factors were developed based on typical maximum fermentation temperatures and starting sugar concentrations rather than average values:

Red Wine Fermentation:	3.46 lb-VOC/1000 gallons tank capacity per day (85 °F fermentation temperature, 22.5 °Brix)
White Wine Fermentation:	1.62 lb-VOC/1000 gallons tank capacity per day (70 °F fermentation temperature, 22.5 °Brix)

Example 3 (fermentation tank) - estimate the daily and annual potential to emit for a 200,000 gallon nominal capacity fermentation tank to exclusively ferment red wine. Maximum fermentation throughput will be 900,000 gallons red wine per year. The tank will not be used for storage.

Daily $PE_{fermentation}$ = 3.46 lb-VOC/day per 1000 gallons nominal tank capacity x 200 Mgal nominal

Daily $PE_{fermentation}$ = 692.1 lb/day

Daily PE = Daily $PE_{fermentation}$ = 692.1 lb/day

Annual PE = 6.2 lb-VOC per 1000 gallons fermented x 900 Mgal/year = 5,580 lb-VOC/yr

Example 5 (fermentation and storage tank) - estimate the daily and annual potential to emit for a 100,000 gallon nominal capacity fermentation tank to ferment red wine. Maximum fermentation throughput will be 450,000 gallons red wine per year. The tank will also be used for storage identical with example 1:

In this case,

Daily PE = the larger of either Daily $PE_{fermentation}$ or Daily $PE_{storage}$

And.

Annual PE = Annual $PE_{fermentation}$ + Annual $PE_{storage}$

Calculating the Daily PE:

Daily $PE_{fermentation}$ = 3.46 lb-VOC/day per 1000 gallons nominal tank capacity x 100 Mgal nominal

Daily $PE_{fermentation}$ = 346.0 lb-VOC/day

From example 1,

Daily $PE_{storage}$ = 27.3 lb-VOC/day

Therefore,

Daily PE = 346.0 lb/day

Calculating the Annual PE:

Annual $PE_{fermentation}$ = 6.2 lb-VOC per 1000 gallons fermented x 450 Mgal/year = 2,790 lb-VOC/yr

From example 1,

Annual $PE_{storage}$ = 97 lb-VOC/year

Therefore,

Annual PE = 2,790 + 97 = 2,887 lb/year

Appendix A

Daily Emission Factor for Wine Fermentation

Appendix A

The emission factor for daily PE is based on the following:

- Estimation of maximum daily fermentation emissions is based on Figure 7 from the Williams and Boulton work referenced in the body of this document.
- Maximum red wine fermentation temperature is assumed to be 85 °F.
- Maximum white wine fermentation temperature is assumed to be 70 °F.
- Maximum working capacity of a red wine fermenter is 80% of tank maximum capacity.
- Maximum working capacity of a white wine fermenter is 95% of tank maximum capacity.

Figure 7 from Williams and Boulton indicates the ethanol emission rate (mg per hour per liter of wine) versus time for various fermentation temperatures. The total emissions in mg per liter of wine for any time period is the area under the curve. Thus, for any given temperature, figure 7 can be graphically integrated over the 24 hour period during which maximum emissions occur. A copy of figure 7 is attached which indicates the integration interval for red wine (85 °F) and for white wine (70 °F). Results of integration of Figure 7 are presented in the following table:

Graphical Integration Results to Determine Daily Fermentation Emission Factor from Figure 7 of Williams and Boulton

	Red Wine	White Wine
Maximum 24 hour Emissions (mg/liter of wine per day)	518.6	203.9
Maximum 24 hour Emissions (1b/1000 gallons of wine per day)	4.33	1.70
Maximum Batch Size (% of Tank Capacity)	80%	95%
Daily Emission Factor (lb/1000 gallons tank capacity per day)	3.46	1.62

Appendix A

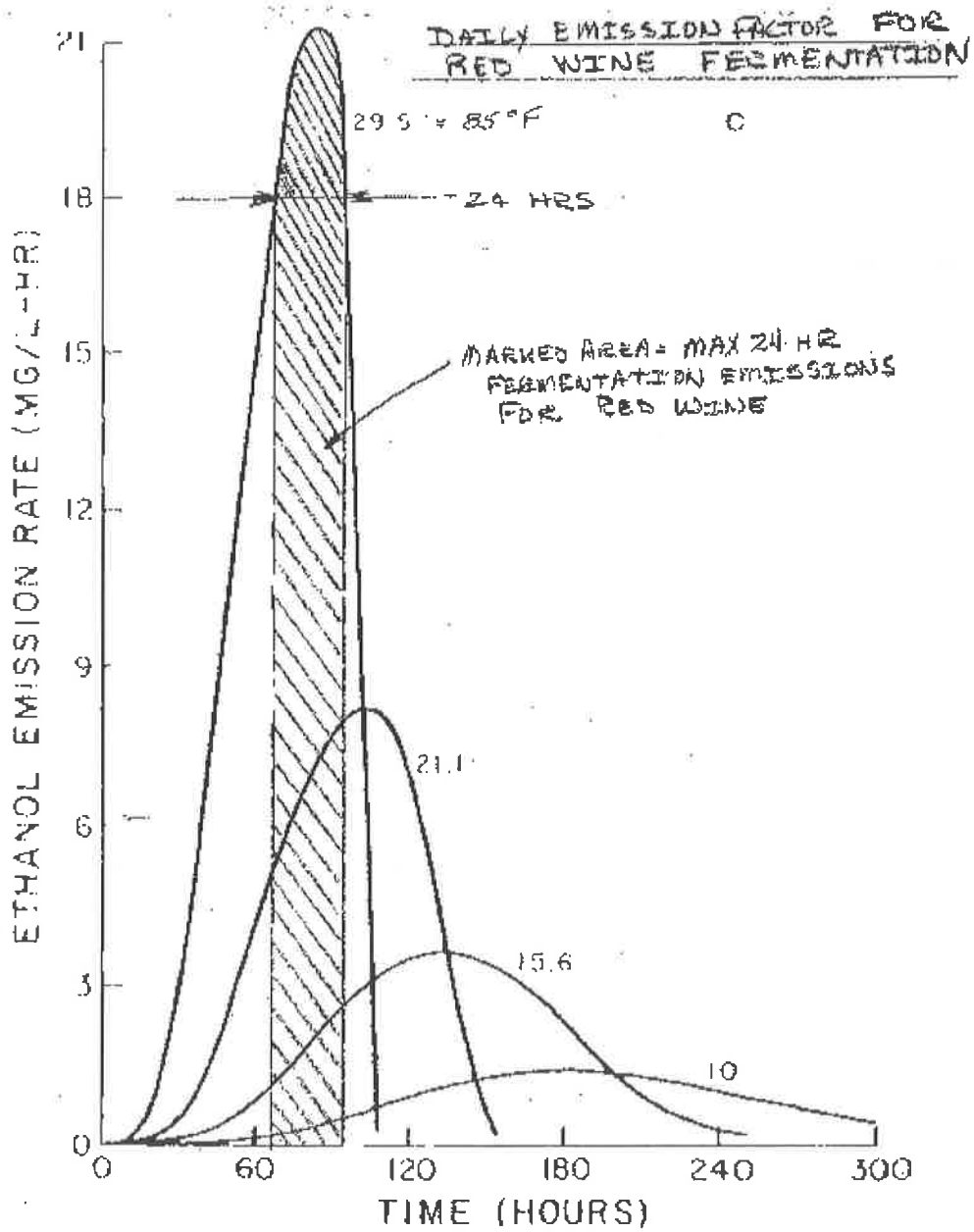

Fig. 7. The influence of fermentation temperature on a) the fermentation rate, b) the vapor phase ethanol concentration, and c) the rate of ethanol emission. (Initial sugar content of 22.5°Brix, isothermal fermentation at indicated temperature.)

Appendix A

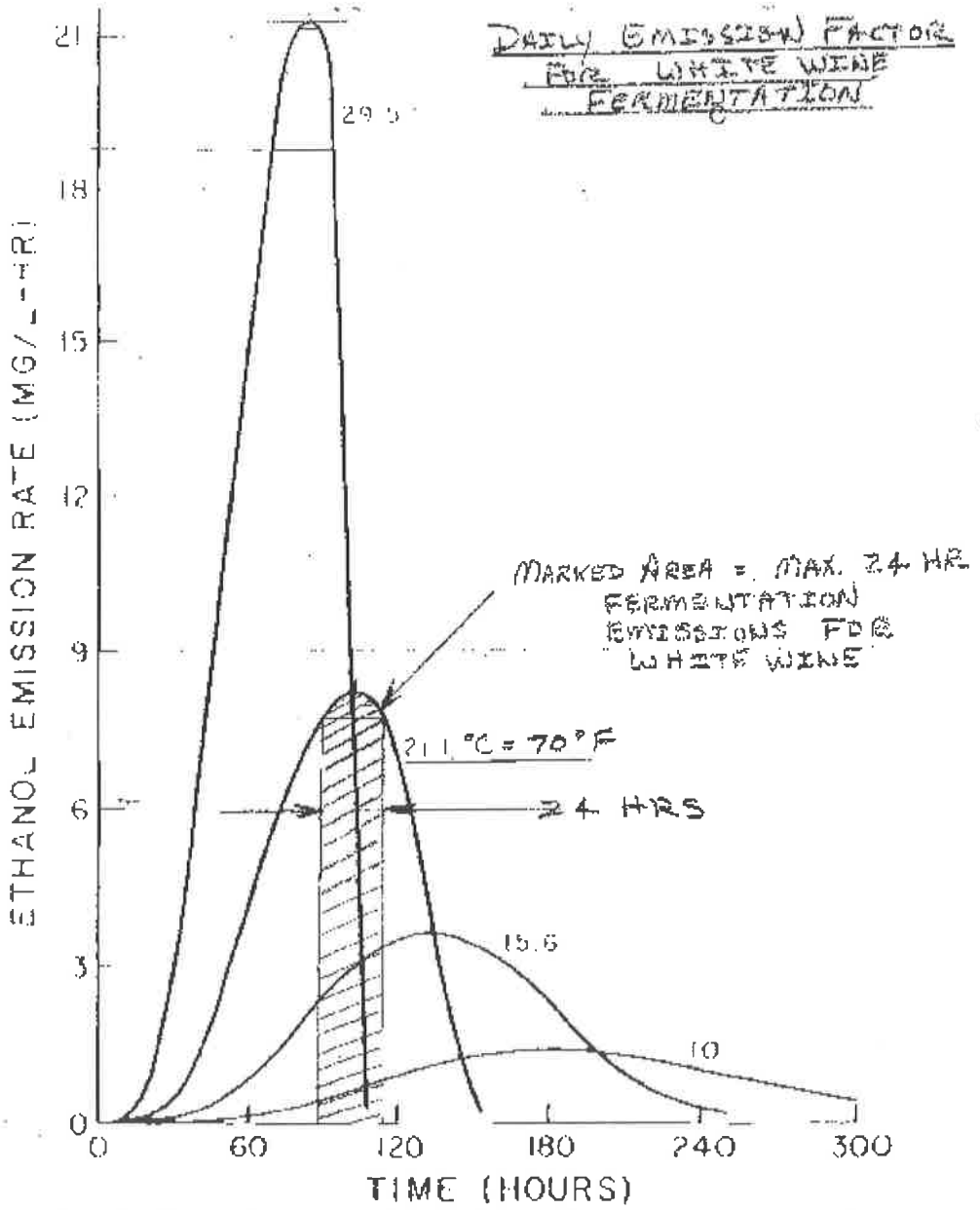

Fig. 7. The influence of fermentation temperature on a) the fermentation rate, b) the vapor phase ethanol concentration, and c) the rate of ethanol emission. (Initial sugar content of 22.5°Brix, isothermal fermentation at indicated temperature.)

Appendix D

Pre-Project Potential Wine Fermentation and Storage Tank VOC Emission Calculations

E J Gallo Winery VOC PE Calculations
N-1237, 1142303

Tank Count	Galllo Tank ID Production Number	SJVAPCD Permit Number	Tank Cooperage Size (Nominal) in gallons	Average Storage Alcohol Content Percent by Volume	PRE-PROJECT Daily Fermentation Emissions (lb/day)	PRE-PROJECT Annual Fermentation Emissions (lb/year)	PRE-PROJECT Annual Wine Storage Throughput (gal/year)	PRE-PROJECT Daily Storage Emissions (lb/day)	PRE-PROJECT Annual Storage Emissions (lb/year)	
1	311	N-1237-490-1	35,000	15.00%	0.0	0	175,000	11.8	32	
2	312	N-1237-491-1	35,000	15.00%	0.0	0	175,000	11.8	32	
3	313	N-1237-492-1	35,000	15.00%	0.0	0	175,000	11.8	32	
4	314	N-1237-493-1	35,000	15.00%	0.0	0	175,000	11.8	32	Reference ATC Project N-1113344
5	315	N-1237-494-1	35,000	15.00%	0.0	0	175,000	11.8	32	
6	316	N-1237-495-1	35,000	15.00%	0.0	0	175,000	11.8	32	
7	317	N-1237-496-1	35,000	15.00%	0.0	0	175,000	11.8	32	
8	318	N-1237-497-1	35,000	15.00%	0.0	0	175,000	11.8	32	
9	351	N-1237-498-2	35,000	15.00%	121.1	263	700,000	3.5	101	
10	352	N-1237-499-2	35,000	15.00%	121.1	263	700,000	3.5	101	Reference ATC Project N-1131559
11	353	N-1237-500-2	35,000	15.00%	121.1	263	700,000	3.5	101	
12	354	N-1237-501-2	35,000	15.00%	121.1	263	700,000	3.5	101	
13	701	N-1237-502-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
14	702	N-1237-503-2	70,000	15.00%	242.2	350	1,400,000	7.1	202	
15	703	N-1237-504-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
16	704	N-1237-505-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
17	705	N-1237-506-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
18	706	N-1237-507-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
19	707	N-1237-508-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
20	708	N-1237-509-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	Reference ATC Project N-1131559
21	709	N-1237-510-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
22	710	N-1237-511-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
23	711	N-1237-512-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
24	712	N-1237-513-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
25	713	N-1237-514-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
26	714	N-1237-515-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
27	715	N-1237-516-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
28	716	N-1237-517-2	70,000	15.00%	242.2	350	1,400,000	6.9	202	
29	1401	N-1237-518-2	105,000	15.00%	363.3	1,050	2,100,000	10.5	303	
30	1402	N-1237-519-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
31	1403	N-1237-520-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
32	1404	N-1237-521-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
33	1405	N-1237-522-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
34	1406	N-1237-523-2	105,000	15.00%	363.3	1,050	2,100,000	10.5	303	
35	1407	N-1237-524-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	

E J Gallo Winery VOC PE Calculations
N-1237, 1142303

Tank Count	Galllo Tank ID Production Number	SJVAPCD Permit Number	Tank Cooperage Size (Nominal) in gallons	Average Storage Alcohol Content Percent by Volume	PRE-PROJECT Daily Fermentation Emissions (lb/day)	PRE-PROJECT Annual Fermentation Emissions (lb/year)	PRE-PROJECT Annual Wine Storage Throughput (gal/year)	PRE-PROJECT Daily Storage Emissions (lb/day)	PRE-PROJECT Annual Storage Emissions (lb/year)	
36	1408	N-1237-525-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	Reference ATC Project N-1131559
37	1409	N-1237-526-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
38	1410	N-1237-527-2	105,000	15.00%	363.3	1,050	2,100,000	10.5	303	
39	1411	N-1237-528-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
40	1412	N-1237-529-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
41	1413	N-1237-530-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
42	1414	N-1237-531-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
43	1415	N-1237-532-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
44	1416	N-1237-533-2	105,000	15.00%	363.3	1,050	2,100,000	10.6	303	
45	2101	N-1237-534-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
46	2102	N-1237-535-2	215,000	15.00%	743.9	3,225	4,300,000	21.6	621	
47	2103	N-1237-536-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
48	2104	N-1237-537-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
49	2105	N-1237-538-2	215,000	15.00%	743.9	3,225	4,300,000	21.6	621	
50	2106	N-1237-539-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
51	2107	N-1237-540-2	215,000	15.00%	743.9	3,225	4,300,000	21.6	621	
52	2108	N-1237-541-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	Reference ATC Project N-1131559
53	2109	N-1237-542-2	215,000	15.00%	743.9	3,225	4,300,000	21.6	621	
54	2110	N-1237-543-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
55	2111	N-1237-544-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
56	2112	N-1237-545-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
57	2113	N-1237-546-2	215,000	15.00%	743.9	3,225	4,300,000	21.6	621	
58	2114	N-1237-547-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
59	2115	N-1237-548-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
60	2116	N-1237-549-2	215,000	15.00%	743.9	3,225	4,300,000	21.5	621	
61	3201	N-1237-550-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	
62	3202	N-1237-551-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.1	506	
63	3203	N-1237-552-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.0	506	
64	3204	N-1237-553-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	
65	3205	N-1237-554-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	
66	3206	N-1237-555-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.1	506	
67	3207	N-1237-556-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.0	506	
68	3208	N-1237-557-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	Reference ATC Project N-1131559
69	3209	N-1237-558-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.1	506	
70	3210	N-1237-559-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.1	506	
71	3211	N-1237-560-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	

E J Gallo Winery VOC PE Calculations
N-1237, 1142303

Tank Count	Galllo Tank ID Production Number	SJVAPCD Permit Number	Tank Cooperage Size (Nominal) in gallons	Average Storage Alcohol Content Percent by Volume	PRE-PROJECT Daily Fermentation Emissions (lb/day)	PRE-PROJECT Annual Fermentation Emissions (lb/year)	PRE-PROJECT Annual Wine Storage Throughput (gal/year)	PRE-PROJECT Daily Storage Emissions (lb/day)	PRE-PROJECT Annual Storage Emissions (lb/year)	
72	3212	N-1237-561-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	
73	3213	N-1237-562-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.2	506	
74	3214	N-1237-563-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.0	506	
75	3215	N-1237-564-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.1	506	
76	3216	N-1237-565-2	350,000	15.00%	1,211.0	1,750	3,500,000	36.0	506	
77	6203	N-1237-568-1	640,000	15.00%	0.0	0	4,480,000	233.6	672	
78	6204	N-1237-569-1	640,000	15.00%	0.0	0	4,480,000	233.6	672	
79	355	N-1237-609-0	35,000	15.00%	0.0	0	350,000	8.3	48	
80	356	N-1237-610-0	35,000	15.00%	0.0	0	350,000	8.3	48	
81	357	N-1237-611-0	35,000	15.00%	0.0	0	350,000	8.3	48	
82	358	N-1237-612-0	35,000	15.00%	0.0	0	350,000	8.3	48	
83	359	N-1237-613-0	35,000	15.00%	0.0	0	350,000	8.3	48	
84	360	N-1237-614-0	35,000	15.00%	0.0	0	350,000	8.3	48	
85	361	N-1237-615-0	35,000	15.00%	0.0	0	350,000	8.3	48	
86	362	N-1237-616-0	35,000	15.00%	0.0	0	350,000	8.3	48	
87	1417	N-1237-617-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
88	1418	N-1237-618-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
89	1419	N-1237-619-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
90	1420	N-1237-620-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
91	1421	N-1237-621-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
92	1422	N-1237-622-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
93	1423	N-1237-623-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
94	1424	N-1237-624-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	Reference ATC Project N-1123583
95	1425	N-1237-625-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
96	1426	N-1237-626-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
97	1427	N-1237-627-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
98	1428	N-1237-628-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
99	1429	N-1237-629-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
100	1430	N-1237-630-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
101	1431	N-1237-631-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
102	1432	N-1237-632-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
103	1433	N-1237-633-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
104	1434	N-1237-634-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
105	1435	N-1237-635-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
106	1436	N-1237-636-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
107	1437	N-1237-637-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	

E J Gallo Winery VOC PE Calculations
N-1237, 1142303

Tank Count	Galllo Tank ID Production Number	SJVAPCD Permit Number	Tank Cooperage Size (Nominal) in gallons	Average Storage Alcohol Content Percent by Volume	PRE-PROJECT Daily Fermentation Emissions (lb/day)	PRE-PROJECT Annual Fermentation Emissions (lb/year)	PRE-PROJECT Annual Wine Storage Throughput (gal/year)	PRE-PROJECT Daily Storage Emissions (lb/day)	PRE-PROJECT Annual Storage Emissions (lb/year)	
108	1438	N-1237-638-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
109	1439	N-1237-639-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
110	1440	N-1237-640-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
111	1441	N-1237-641-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
112	1442	N-1237-642-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
113	1445	N-1237-643-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
114	1446	N-1237-644-0	105,000	15.00%	0.0	0	2,100,000	24.8	286	
115	2117	N-1237-645-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
116	2118	N-1237-646-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
117	2119	N-1237-647-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
118	2120	N-1237-648-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
119	2121	N-1237-649-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
120	2122	N-1237-650-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	Reference ATC Project N-1123583
121	2123	N-1237-651-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
122	2124	N-1237-652-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
123	2125	N-1237-653-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
124	2126	N-1237-654-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
125	2127	N-1237-655-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
126	2128	N-1237-656-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
127	2129	N-1237-657-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
128	2130	N-1237-658-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
129	2131	N-1237-659-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
130	2132	N-1237-660-0	215,000	15.00%	348.3	1,613	4,300,000	50.7	585	
131	319	N-1237-662	35,000	15.00%	0.0	0	175,000	3.4	25	
132	320	N-1237-663	35,000	15.00%	0.0	0	175,000	3.4	25	Reference ATC Project N-1131615
133	321	N-1237-664	35,000	15.00%	0.0	0	175,000	3.4	25	
134	322	N-1237-665	35,000	15.00%	0.0	0	175,000	3.4	25	
135	323	N-1237-666	35,000	15.00%	0.0	0	175,000	3.4	25	
136	324	N-1237-667	35,000	15.00%	0.0	0	175,000	3.4	25	
137	325	N-1237-668	35,000	15.00%	0.0	0	175,000	3.4	25	
138	326	N-1237-669	35,000	15.00%	0.0	0	175,000	3.4	25	
139	363	N-1237-697	35,000	15.00%	0.0	0	700,000	3.5	101	
140	364	N-1237-698	35,000	15.00%	0.0	0	700,000	3.5	101	
141	365	N-1237-699	35,000	15.00%	0.0	0	700,000	3.5	101	
142	366	N-1237-700	35,000	15.00%	0.0	0	700,000	3.5	101	
143	3217	N-1237-701	350,000	15.00%	0.0	0	3,500,000	35.0	506	

E J Gallo Winery VOC PE Calculations
N-1237, 1142303

Tank Count	Galllo Tank ID Production Number	SJVAPCD Permit Number	Tank Cooperage Size (Nominal) in gallons	Average Storage Alcohol Content Percent by Volume	PRE-PROJECT Daily Fermentation Emissions (lb/day)	PRE-PROJECT Annual Fermentation Emissions (lb/year)	PRE-PROJECT Annual Wine Storage Throughput (gal/year)	PRE-PROJECT Daily Storage Emissions (lb/day)	PRE-PROJECT Annual Storage Emissions (lb/year)	
144	3218	N-1237-702	350,000	15.00%	0.0	0	3,500,000	35.0	506	
145	3219	N-1237-703	350,000	15.00%	0.0	0	3,500,000	35.0	506	
146	3220	N-1237-704	350,000	15.00%	0.0	0	3,500,000	35.0	506	Reference ATC Project N-1132991
147	3221	N-1237-705	350,000	15.00%	0.0	0	3,500,000	35.0	506	
148	3222	N-1237-706	350,000	15.00%	0.0	0	3,500,000	35.0	506	
149	3223	N-1237-707	350,000	15.00%	0.0	0	3,500,000	35.0	506	
150	3224	N-1237-708	350,000	15.00%	0.0	0	3,500,000	35.0	506	
151	6201	N-1237-709	629,000	15.00%	0.0	0	4,450,000	63.0	643	
152	6202	N-1237-710	629,000	15.00%	0.0	0	4,450,000	63.0	643	
153	6203	N-1237-711	629,000	15.00%	0.0	0	4,450,000	63.0	643	
154	6204	N-1237-712	629,000	15.00%	0.0	0	4,450,000	63.0	643	
155	6205	N-1237-713	629,000	15.00%	0.0	0	4,450,000	63.0	643	
156	6206	N-1237-714	629,000	15.00%	0.0	0	4,450,000	63.0	643	
157	6207	N-1237-715	629,000	15.00%	0.0	0	4,450,000	63.0	643	
158	6208	N-1237-716	629,000	15.00%	0.0	0	4,450,000	63.0	643	
159	327	N-1237-717-0	35,000	15.00%	0.0	0	175,000	3.4	25	
160	328	N-1237-718-0	35,000	15.00%	0.0	0	175,000	3.4	25	Reference ATC Project N-1133659
161	329	N-1237-719-0	35,000	15.00%	0.0	0	175,000	3.4	25	
162	330	N-1237-720-0	35,000	15.00%	0.0	0	175,000	3.4	25	
163	331	N-1237-721-0	35,000	15.00%	0.0	0	175,000	3.4	25	
164	332	N-1237-722-0	35,000	15.00%	0.0	0	175,000	3.4	25	
165	333	N-1237-723-0	35,000	15.00%	0.0	0	175,000	3.4	25	
166	334	N-1237-724-0	35,000	15.00%	0.0	0	175,000	3.4	25	
167	2133	N-1237-764-0	215,000	15.00%	0.0	0	4,300,000	23.6	622	
168	2134	N-1237-765-0	215,000	15.00%	0.0	0	4,300,000	23.6	622	
169	2137	N-1237-766-0	215,000	15.00%	0.0	0	4,300,000	23.6	622	
170	2138	N-1237-767-0	215,000	15.00%	0.0	0	4,300,000	23.6	622	Reference ATC Project N-1143437
171	3225	N-1237-768-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
172	3226	N-1237-769-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
173	3227	N-1237-770-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
174	3228	N-1237-771-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
175	3229	N-1237-772-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
176	3230	N-1237-773-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
175	3231	N-1237-774-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
176	3232	N-1237-775-0	350,000	15.00%	0.0	0	3,500,000	39.8	506	
						128,860			62,400	

Appendix E

Baseline Actual VOC Emission and Unused Baseline Capacity Calculations

Baseline Actual Emission (BAE) and Unused Baseline Capacity (UBC) Calculations

Calculation Basis:

E & J Gallo Winery provided production records for the 178 tanks being modified within this project for all of 2014 and 2015 and the year to date records for 2016. However, these calculations only require data from one continuous 24 month period to be used. Therefore, for the purposes of these BAE and UBC calculations, the 24 month consecutive period used will be the calendar years of 2014 until the end of 2015 as this represents the most complete and accurate data provided.

BAE Calculations:

- The BAE for wine fermentation operations were determined using the throughput records provided by E & J Gallo Winery for this project and the red and white wine emission factors from FYI 114 (see Appendix C): Red Wine = 6.2 lb-VOC/1,000 gallons; and White Wine = 2.5 lb-VOC/1,000 gallons.

- The BAE for wine storage operations were determined using the throughput records provided by E & J Gallo Winery for this project and the wine storage emission factor derived from using the storage equation in FYI 114 (see Appendix C): Wine Storage = 0.1383 lb-VOC/1,000 gallons at 15% average ethanol content.

- In accordance with the definitions in 40 CFR Part 51, Subpart I, *Review of New Sources and Modifications*, Section 165, BAE means the average rate at which the emissions unit actually emitted during any consecutive 24-month period. However, for new emission units, the BAE shall be equal to the unit's potential to emit. A new emission unit is defined as any emission unit which is newly constructed and which has existed for less than 2 years from the date such emissions unit first operated. Based on information in the District's permit database, the tanks under permits N-1237-662 through '-669, '-697 through '-724, and '-764 through '-775 have either not been constructed or operated yet or have been in operation for less than two years. Therefore, the BAE from each of these tanks will be set equal to each units pre-project potential to emit.

- In accordance with 40 CFR 51.165, if the baseline actual wine fermentation and/or storage emissions were determined to be greater than the current permitted capacity for each tank, then the BAE values used in the following spreadsheet will be adjusted down and set equal to the pre-project potential to emit for each tank.

Baseline Capacity Estimate:

- Each of these existing tank permits contained emissions and/or throughput limitations for wine fermentation and storage operations. There are no other limitations on these tanks or the entire facility that would directly affect how much E & J Gallo Winery could potentially operate or use these tanks. Therefore, the baseline capacity of each tank will be set equal to each units pre-project permitted and/or throughput level.

- For any tank which meets the definition of a new emission unit as described above, the baseline capacity will be set equal to zero for the purposes of these calculations.

E J Gallo Winery BAE and UBC Calculations
N-1237, 1142303

Tank Count	Gallo Tank ID Production Number	Permit Number	Nominal Tank Size (gallons)	2014-15 Avg Red Wine Fermented (gal)	2014-15 Avg White Wine Fermented (gal)	2014-15 Avg Wine Stored (gal)	Baseline Actual Wine Fermentation (Red + White) Emissions (lb/year)	Ferm. BAE < Permitted Capacity	Adjusted Baseline Actual Wine Fermentation Emissions (lb/year)	Baseline Actual Wine Storage Emissions (lb/year)	Storage BAE < Permitted Capacity	Adjusted Baseline Actual Wine Storage Emissions (lb/year)	Baseline Capacity Wine Fermentation Emissions (lb/year)	Baseline Capacity Wine Storage Emissions (lb/year)	Unused Baseline Capacity Emissions for Wine Tank (lb/year)
1	**311**	N-1237-490-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
2	**312**	N-1237-491-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
3	**313**	N-1237-492-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
4	**314**	N-1237-493-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
5	**315**	N-1237-494-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
6	**316**	N-1237-495-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
7	**317**	N-1237-496-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
8	**318**	N-1237-497-1	35,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	32	**32**
9	**351**	N-1237-498-2	35,000	4,229	0	57,640	26	Yes	**26**	8	Yes	**8**	263	101	**330**
10	**352**	N-1237-499-2	35,000	13,579	0	59,238	84	Yes	**84**	8	Yes	**8**	263	101	**272**
11	**353**	N-1237-500-2	35,000	0	0	79,258	0	Yes	**0**	11	Yes	**11**	263	101	**353**
12	**354**	N-1237-501-2	35,000	28,906	0	20,908	179	Yes	**179**	3	Yes	**3**	263	101	**182**
13	**701**	N-1237-502-2	70,000	94,267	0	216,957	584	No	**350**	30	Yes	**30**	350	202	**172**
14	**702**	N-1237-503-2	70,000	14,952	0	121,957	93	Yes	**93**	17	Yes	**17**	350	202	**442**
15	**703**	N-1237-504-2	70,000	45,659	34,676	134,924	370	No	**350**	19	Yes	**19**	350	202	**183**
16	**704**	N-1237-505-2	70,000	58,105	0	213,348	360	No	**350**	30	Yes	**30**	350	202	**172**
17	**705**	N-1237-506-2	70,000	97,589	0	68,973	605	No	**350**	10	Yes	**10**	350	202	**192**
18	**706**	N-1237-507-2	70,000	16,019	0	168,383	99	Yes	**99**	23	Yes	**23**	350	202	**430**
19	**707**	N-1237-508-2	70,000	24,603	0	54,322	153	Yes	**153**	8	Yes	**8**	350	202	**391**
20	**708**	N-1237-509-2	70,000	51,313	0	90,970	318	Yes	**318**	13	Yes	**13**	350	202	**221**
21	**709**	N-1237-510-2	70,000	0	0	67,193	0	Yes	**0**	9	Yes	**9**	350	202	**543**
22	**710**	N-1237-511-2	70,000	30,485	0	274,681	189	Yes	**189**	38	Yes	**38**	350	202	**325**
23	**711**	N-1237-512-2	70,000	69,706	22,153	122,057	488	No	**350**	17	Yes	**17**	350	202	**185**
24	**712**	N-1237-513-2	70,000	67,383	0	34,571	418	No	**350**	5	Yes	**5**	350	202	**197**
25	**713**	N-1237-514-2	70,000	63,207	0	95,926	392	No	**350**	13	Yes	**13**	350	202	**189**
26	**714**	N-1237-515-2	70,000	94,945	0	209,047	589	No	**350**	29	Yes	**29**	350	202	**173**
27	**715**	N-1237-516-2	70,000	48,856	0	157,354	303	Yes	**303**	22	Yes	**22**	350	202	**227**
28	**716**	N-1237-517-2	70,000	34,971	0	126,518	217	Yes	**217**	17	Yes	**17**	350	202	**318**
29	**1401**	N-1237-518-2	105,000	0	21,694	50,938	54	Yes	**54**	7	Yes	**7**	1,050	303	**1,292**
30	**1402**	N-1237-519-2	105,000	79,846	23,456	256,864	554	Yes	**554**	36	Yes	**36**	1,050	303	**763**
31	**1403**	N-1237-520-2	105,000	58,214	29,872	241,607	436	Yes	**436**	33	Yes	**33**	1,050	303	**884**
32	**1404**	N-1237-521-2	105,000	39,122	51,530	172,679	371	Yes	**371**	24	Yes	**24**	1,050	303	**958**
33	**1405**	N-1237-522-2	105,000	0	0	179,609	0	Yes	**0**	25	Yes	**25**	1,050	303	**1,328**
34	**1406**	N-1237-523-2	105,000	0	0	183,004	0	Yes	**0**	25	Yes	**25**	1,050	303	**1,328**
35	**1407**	N-1237-524-2	105,000	45,786	66,722	103,818	451	Yes	**451**	14	Yes	**14**	1,050	303	**888**
36	**1408**	N-1237-525-2	105,000	60,251	96,055	147,987	614	Yes	**614**	20	Yes	**20**	1,050	303	**719**
37	**1409**	N-1237-526-2	105,000	62,150	37,937	104,449	480	Yes	**480**	14	Yes	**14**	1,050	303	**859**
38	**1410**	N-1237-527-2	105,000	0	39,675	150,641	99	Yes	**99**	21	Yes	**21**	1,050	303	**1,233**
39	**1411**	N-1237-528-2	105,000	86,205	0	134,899	534	Yes	**534**	19	Yes	**19**	1,050	303	**800**
40	**1412**	N-1237-529-2	105,000	18,299	22,488	331,333	170	Yes	**170**	46	Yes	**46**	1,050	303	**1,137**
41	**1413**	N-1237-530-2	105,000	0	0	0	0	Yes	**0**	0	Yes	**0**	1,050	303	**1,353**
42	**1414**	N-1237-531-2	105,000	46,769	0	214,573	290	Yes	**290**	30	Yes	**30**	1,050	303	**1,033**
43	**1415**	N-1237-532-2	105,000	16,601	0	53,837	103	Yes	**103**	7	Yes	**7**	1,050	303	**1,243**
44	**1416**	N-1237-533-2	105,000	57,356	0	189,111	356	Yes	**356**	26	Yes	**26**	1,050	303	**971**
45	**2101**	N-1237-534-2	215,000	0	0	678,074	0	Yes	**0**	94	Yes	**94**	3,225	621	**3,752**
46	**2102**	N-1237-535-2	215,000	0	0	274,996	0	Yes	**0**	38	Yes	**38**	3,225	621	**3,808**

E J Gallo Winery BAE and UBC Calculations
N-1237, 1142303

Tank Count	Gallo Tank ID Production Number	Permit Number	Nominal Tank Size (gallons)	2014-15 Avg Red Wine Fermented (gal)	2014-15 Avg White Wine Fermented (gal)	2014-15 Avg Wine Stored (gal)	Baseline Actual Wine Fermentation (Red + White) Emissions (lb/year)	Ferm. BAE < Permitted Capacity	Adjusted Baseline Actual Wine Fermentation Emissions (lb/year)	Baseline Actual Wine Storage Emissions (lb/year)	Storage BAE < Permitted Capacity	Adjusted Baseline Actual Wine Storage Emissions (lb/year)	Baseline Capacity Wine Fermentation Emissions (lb/year)	Baseline Capacity Wine Storage Emissions (lb/year)	Unused Baseline Capacity Emissions for Wine Tank (lb/year)
47	2103	N-1237-536-2	215,000	0	0	483,737	0	Yes	0	67	Yes	67	3,225	621	3,779
48	2104	N-1237-537-2	215,000	82,341	0	492,629	511	Yes	511	68	Yes	68	3,225	621	3,267
49	2105	N-1237-538-2	215,000	0	125,697	951,710	314	Yes	314	132	Yes	132	3,225	621	3,400
50	2106	N-1237-539-2	215,000	74,851	99,133	615,580	712	Yes	712	85	Yes	85	3,225	621	3,049
51	2107	N-1237-540-2	215,000	73,681	68,474	193,726	628	Yes	628	27	Yes	27	3,225	621	3,191
52	2108	N-1237-541-2	215,000	0	0	694,804	0	Yes	0	96	Yes	96	3,225	621	3,750
53	2109	N-1237-542-2	215,000	183,143	84,959	603,266	1,348	Yes	1,348	83	Yes	83	3,225	621	2,415
54	2110	N-1237-543-2	215,000	79,445	83,901	424,210	702	Yes	702	59	Yes	59	3,225	621	3,085
55	2111	N-1237-544-2	215,000	191,806	0	707,091	1,189	Yes	1,189	98	Yes	98	3,225	621	2,559
56	2112	N-1237-545-2	215,000	179,468	0	862,934	1,113	Yes	1,113	119	Yes	119	3,225	621	2,614
57	2113	N-1237-546-2	215,000	0	59,145	327,987	148	Yes	148	45	Yes	45	3,225	621	3,653
58	2114	N-1237-547-2	215,000	68,446	0	270,691	424	Yes	424	37	Yes	37	3,225	621	3,385
59	2115	N-1237-548-2	215,000	92,561	0	184,885	574	Yes	574	26	Yes	26	3,225	621	3,246
60	2116	N-1237-549-2	215,000	135,723	0	402,219	841	Yes	841	56	Yes	56	3,225	621	2,949
61	3201	N-1237-550-2	350,000	0	289,975	1,138,939	725	Yes	725	158	Yes	158	1,750	506	1,373
62	3202	N-1237-551-2	350,000	113,746	203,730	700,337	1,215	Yes	1,215	97	Yes	97	1,750	506	944
63	3203	N-1237-552-2	350,000	0	0	1,319,863	0	Yes	0	183	Yes	183	1,750	506	2,073
64	3204	N-1237-553-2	350,000	0	118,116	647,581	295	Yes	295	90	Yes	90	1,750	506	1,871
65	3205	N-1237-554-2	350,000	0	0	881,418	0	Yes	0	122	Yes	122	1,750	506	2,134
66	3206	N-1237-555-2	350,000	0	0	700,288	0	Yes	0	97	Yes	97	1,750	506	2,159
67	3207	N-1237-556-2	350,000	0	0	621,988	0	Yes	0	86	Yes	86	1,750	506	2,170
68	3208	N-1237-557-2	350,000	0	0	810,198	0	Yes	0	112	Yes	112	1,750	506	2,144
69	3209	N-1237-558-2	350,000	0	0	705,289	0	Yes	0	98	Yes	98	1,750	506	2,158
70	3210	N-1237-559-2	350,000	0	141,526	353,101	354	Yes	354	49	Yes	49	1,750	506	1,853
71	3211	N-1237-560-2	350,000	151,824	0	702,449	941	Yes	941	97	Yes	97	1,750	506	1,218
72	3212	N-1237-561-2	350,000	0	0	726,795	0	Yes	0	101	Yes	101	1,750	506	2,155
73	3213	N-1237-562-2	350,000	0	0	490,214	0	Yes	0	68	Yes	68	1,750	506	2,188
74	3214	N-1237-563-2	350,000	0	0	358,480	0	Yes	0	50	Yes	50	1,750	506	2,206
75	3215	N-1237-564-2	350,000	0	0	1,259,694	0	Yes	0	174	Yes	174	1,750	506	2,082
76	3216	N-1237-565-2	350,000	0	0	1,019,002	0	Yes	0	141	Yes	141	1,750	506	2,115
77	6203	N-1237-568-1	640,000	0	0	1,279,758	0	Yes	0	177	Yes	177	0	672	495
78	6204	N-1237-569-1	640,000	0	0	2,168,974	0	Yes	0	300	Yes	300	0	672	372
79	355	N-1237-609-0	35,000	0	0	76,371	0	Yes	0	11	Yes	11	0	48	37
80	356	N-1237-610-0	35,000	0	0	75,388	0	Yes	0	10	Yes	10	0	48	38
81	357	N-1237-611-0	35,000	0	0	115,623	0	Yes	0	16	Yes	16	0	48	32
82	358	N-1237-612-0	35,000	0	0	73,259	0	Yes	0	10	Yes	10	0	48	38
83	359	N-1237-613-0	35,000	0	0	48,762	0	Yes	0	7	Yes	7	0	48	41
84	360	N-1237-614-0	35,000	0	0	87,384	0	Yes	0	12	Yes	12	0	48	36
85	361	N-1237-615-0	35,000	0	0	37,300	0	Yes	0	5	Yes	5	0	48	43
86	362	N-1237-616-0	35,000	0	0	60,617	0	Yes	0	8	Yes	8	0	48	40
87	1417	N-1237-617-0	105,000	0	0	334,555	0	Yes	0	46	Yes	46	0	286	240
88	1418	N-1237-618-0	105,000	0	0	362,088	0	Yes	0	50	Yes	50	0	286	236
89	1419	N-1237-619-0	105,000	0	0	126,598	0	Yes	0	18	Yes	18	0	286	268
90	1420	N-1237-620-0	105,000	0	0	194,715	0	Yes	0	27	Yes	27	0	286	259
91	1421	N-1237-621-0	105,000	0	0	149,687	0	Yes	0	21	Yes	21	0	286	265
92	1422	N-1237-622-0	105,000	0	0	135,255	0	Yes	0	19	Yes	19	0	286	267
93	1423	N-1237-623-0	105,000	0	0	82,062	0	Yes	0	11	Yes	11	0	286	275
94	1424	N-1237-624-0	105,000	0	0	98,202	0	Yes	0	14	Yes	14	0	286	272

E J Gallo Winery BAE and UBC Calculations
N-1237, 1142303

Tank Count	Galllo Tank ID Production Number	Permit Number	Nominal Tank Size (gallons)	2014-15 Avg Red Wine Fermented (gal)	2014-15 Avg White Wine Fermented (gal)	2014-15 Avg Wine Stored (gal)	Baseline Actual Wine Fermentation (Red + White) Emissions (lb/year)	Ferm. BAE < Permitted Capacity	Adjusted Baselne Actual Wine Fermentation Emissions (lb/year)	Baseline Actual Wine Storage Emissions (lb/year)	Storage BAE < Permitted Capacity	Adjusted Baseline Actual Wine Storage Emissions (lb/year)	Baseline Capacity Wine Fermentation Emissions (lb/year)	Baseline Capacity Wine Storage Emissions (lb/year)	Unused Baseline Capacity Emissions for Wine Tank (lb/year)
95	**1425**	N-1237-625-0	105,000	0	0	203,534	0	Yes	**0**	28	Yes	**28**	0	286	**258**
96	**1426**	N-1237-626-0	105,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	286	**286**
97	**1427**	N-1237-627-0	105,000	0	0	258,028	0	Yes	**0**	36	Yes	**36**	0	286	**250**
98	**1428**	N-1237-628-0	105,000	0	0	106,412	0	Yes	**0**	15	Yes	**15**	0	286	**271**
99	**1429**	N-1237-629-0	105,000	0	0	69,530	0	Yes	**0**	10	Yes	**10**	0	286	**276**
100	**1430**	N-1237-630-0	105,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	286	**286**
101	**1431**	N-1237-631-0	105,000	0	0	130,485	0	Yes	**0**	18	Yes	**18**	0	286	**268**
102	**1432**	N-1237-632-0	105,000	0	0	52,591	0	Yes	**0**	7	Yes	**7**	0	286	**279**
103	**1433**	N-1237-633-0	105,000	0	0	45,864	0	Yes	**0**	6	Yes	**6**	0	286	**280**
104	**1434**	N-1237-634-0	105,000	0	0	0	0	Yes	**0**	0	Yes	**0**	0	286	**286**
105	**1435**	N-1237-635-0	105,000	0	0	97,691	0	Yes	**0**	14	Yes	**14**	0	286	**272**
106	**1436**	N-1237-636-0	105,000	0	0	147,082	0	Yes	**0**	20	Yes	**20**	0	286	**266**
107	**1437**	N-1237-637-0	105,000	0	0	128,451	0	Yes	**0**	18	Yes	**18**	0	286	**268**
108	**1438**	N-1237-638-0	105,000	0	0	98,476	0	Yes	**0**	14	Yes	**14**	0	286	**272**
109	**1439**	N-1237-639-0	105,000	0	0	44,960	0	Yes	**0**	6	Yes	**6**	0	286	**280**
110	**1440**	N-1237-640-0	105,000	0	0	94,168	0	Yes	**0**	13	Yes	**13**	0	286	**273**
111	**1441**	N-1237-641-0	105,000	0	0	158,897	0	Yes	**0**	22	Yes	**22**	0	286	**264**
112	**1442**	N-1237-642-0	105,000	0	0	98,501	0	Yes	**0**	14	Yes	**14**	0	286	**272**
113	**1445**	N-1237-643-0	105,000	0	0	117,482	0	Yes	**0**	16	Yes	**16**	0	286	**270**
114	**1446**	N-1237-644-0	105,000	0	0	52,570	0	Yes	**0**	7	Yes	**7**	0	286	**279**
115	**2117**	N-1237-645-0	215,000	0	136,892	299,826	342	Yes	**342**	41	Yes	**41**	1,613	585	**1,815**
116	**2118**	N-1237-646-0	215,000	0	180,667	339,676	452	Yes	**452**	47	Yes	**47**	1,613	585	**1,699**
117	**2119**	N-1237-647-0	215,000	0	155,521	118,487	389	Yes	**389**	16	Yes	**16**	1,613	585	**1,793**
118	**2120**	N-1237-648-0	215,000	0	191,332	226,559	478	Yes	**478**	31	Yes	**31**	1,613	585	**1,689**
119	**2121**	N-1237-649-0	215,000	0	226,723	487,100	567	Yes	**567**	67	Yes	**67**	1,613	585	**1,564**
120	**2122**	N-1237-650-0	215,000	0	161,257	201,522	403	Yes	**403**	28	Yes	**28**	1,613	585	**1,767**
121	**2123**	N-1237-651-0	215,000	0	89,999	131,498	225	Yes	**225**	18	Yes	**18**	1,613	585	**1,955**
122	**2124**	N-1237-652-0	215,000	0	242,707	121,925	607	Yes	**607**	17	Yes	**17**	1,613	585	**1,574**
123	**2125**	N-1237-653-0	215,000	0	83,817	299,596	210	Yes	**210**	41	Yes	**41**	1,613	585	**1,947**
124	**2126**	N-1237-654-0	215,000	0	137,894	197,680	345	Yes	**345**	27	Yes	**27**	1,613	585	**1,826**
125	**2127**	N-1237-655-0	215,000	0	65,745	404,942	164	Yes	**164**	56	Yes	**56**	1,613	585	**1,978**
126	**2128**	N-1237-656-0	215,000	0	174,206	103,856	436	Yes	**436**	14	Yes	**14**	1,613	585	**1,748**
127	**2129**	N-1237-657-0	215,000	0	98,131	161,759	245	Yes	**245**	22	Yes	**22**	1,613	585	**1,931**
128	**2130**	N-1237-658-0	215,000	0	186,737	205,591	467	Yes	**467**	28	Yes	**28**	1,613	585	**1,703**
129	**2131**	N-1237-659-0	215,000	0	0	316,265	0	Yes	**0**	44	Yes	**44**	1,613	585	**2,154**
130	**2132**	N-1237-660-0	215,000	0	193,577	213	484	Yes	**484**	0	Yes	**0**	1,613	585	**1,714**
131	**319**	N-1237-662	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
132	**320**	N-1237-663	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
133	**321**	N-1237-664	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
134	**322**	N-1237-665	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
135	**323**	N-1237-666	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
136	**324**	N-1237-667	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
137	**325**	N-1237-668	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
138	**326**	N-1237-669	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
139	**363**	N-1237-697	35,000	0	0	0	0	Yes	**0**	101	Yes	**101**	0	101	**0**
140	**364**	N-1237-698	35,000	0	0	0	0	Yes	**0**	101	Yes	**101**	0	101	**0**
141	**365**	N-1237-699	35,000	0	0	0	0	Yes	**0**	101	Yes	**101**	0	101	**0**
142	**366**	N-1237-700	35,000	0	0	0	0	Yes	**0**	101	Yes	**101**	0	101	**0**

E J Gallo Winery BAE and UBC Calculations
N-1237, 1142303

Tank Count	Gallo Tank ID Production Number	Permit Number	Nominal Tank Size (gallons)	2014-15 Avg Red Wine Fermented (gal)	2014-15 Avg White Wine Fermented (gal)	2014-15 Avg Wine Stored (gal)	Baseline Actual Wine Fermentation (Red + White) Emissions (lb/year)	Ferm. BAE < Permitted Capacity	Adjusted Baseline Actual Wine Fermentation Emissions (lb/year)	Baseline Actual Wine Storage Emissions (lb/year)	Storage BAE < Permitted Capacity	Adjusted Baseline Actual Wine Storage Emissions (lb/year)	Baseline Capacity Wine Fermentation Emissions (lb/year)	Baseline Capacity Wine Storage Emissions (lb/year)	Unused Baseline Capacity Emissions for Wine Tank (lb/year)
143	**3217**	N-1237-701	350,000	0	0	329,938	0	Yes	**0**	506	Yes	**506**	0	506	**0**
144	**3218**	N-1237-702	350,000	0	0	870,883	0	Yes	**0**	506	Yes	**506**	0	506	**0**
145	**3219**	N-1237-703	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
146	**3220**	N-1237-704	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
147	**3221**	N-1237-705	350,000	0	0	410,723	0	Yes	**0**	506	Yes	**506**	0	506	**0**
148	**3222**	N-1237-706	350,000	0	0	439,586	0	Yes	**0**	506	Yes	**506**	0	506	**0**
149	**3223**	N-1237-707	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
150	**3224**	N-1237-708	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
151	**6201**	N-1237-709	629,000	0	0	1,118,694	0	Yes	**0**	643	Yes	**643**	0	643	**0**
152	**6202**	N-1237-710	629,000	0	0	1,935,209	0	Yes	**0**	643	Yes	**643**	0	643	**0**
153	**6203**	N-1237-711	629,000	0	0	0	0	Yes	**0**	643	Yes	**643**	0	643	**0**
154	**6204**	N-1237-712	629,000	0	0	0	0	Yes	**0**	643	Yes	**643**	0	643	**0**
155	**6205**	N-1237-713	629,000	0	0	0	0	Yes	**0**	643	Yes	**643**	0	643	**0**
156	**6206**	N-1237-714	629,000	0	0	0	0	Yes	**0**	643	Yes	**643**	0	643	**0**
157	**6207**	N-1237-715	629,000	0	0	0	0	Yes	**0**	643	Yes	**643**	0	643	**0**
158	**6208**	N-1237-716	629,000	0	0	0	0	Yes	**0**	643	Yes	**643**	0	643	**0**
159	**327**	N-1237-717-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
160	**328**	N-1237-718-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
161	**329**	N-1237-719-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
162	**330**	N-1237-720-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
163	**331**	N-1237-721-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
164	**332**	N-1237-722-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
165	**333**	N-1237-723-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
166	**334**	N-1237-724-0	35,000	0	0	0	0	Yes	**0**	25	Yes	**25**	0	25	**0**
167	**2133**	N-1237-764-0	215,000	0	0	0	0	Yes	**0**	622	Yes	**622**	0	622	**0**
168	**2134**	N-1237-765-0	215,000	0	0	0	0	Yes	**0**	622	Yes	**622**	0	622	**0**
169	**2137**	N-1237-766-0	215,000	0	0	0	0	Yes	**0**	622	Yes	**622**	0	622	**0**
170	**2138**	N-1237-767-0	215,000	0	0	0	0	Yes	**0**	622	Yes	**622**	0	622	**0**
171	**3225**	N-1237-768-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
172	**3226**	N-1237-769-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
173	**3227**	N-1237-770-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
174	**3228**	N-1237-771-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
175	**3229**	N-1237-772-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
176	**3230**	N-1237-773-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
177	**3231**	N-1237-774-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
178	**3232**	N-1237-775-0	350,000	0	0	0	0	Yes	**0**	506	Yes	**506**	0	506	**0**
									26,821			**21,583**			**142,856**

48,404

Appendix F

BACT Guideline 5.4.14 Top Down VOC BACT Analysis for Wine Fermentation Tanks

Top Down BACT Analysis for VOCs from Wine Fermentation Operations

Step 1 - Identify All Possible Control Technologies

SJVUAPCD BACT Clearinghouse guideline 5.4.14 identifies the following control options for wine fermentation tanks as follows:

1) Capture of VOCs and thermal oxidation or equivalent (88% control) – Technologically Feasible
2) Capture of VOCs and carbon adsorption or equivalent (86% control) – Technologically Feasible
3) Capture of VOCs and absorption or equivalent (81% control) – Technologically Feasible
4) Capture of VOCs and condensation or equivalent (81% control) – Technologically Feasible
5) Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F – Achieved in Practice

As mentioned above, BACT guideline 5.4.14 (10/6/2009) lists both absorption (scrubber) and condensation systems as technologically feasible options for the control of VOC emissions from wine fermentation operations. Since 2009, there has been substantial development of these two control technologies, prompting the District to perform an analysis to determine whether these technologies can now be considered Achieved in Practice. As demonstrated in the Achieved in Practice analysis in Appendix D, these technologies do not yet meet the criteria to be considered as Achieved in Practice. Therefore, the technologies will be considered technologically feasible and a cost analysis will be performed for these technologies.

Step 2 - Eliminate Technologically Infeasible Options

None of the above listed technologies are technologically infeasible.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Rank by Control Effectiveness		
Rank	Control	Overall Capture and Control Efficiency(*)
1	Capture of VOCs and thermal oxidation or equivalent	88%
2	Capture of VOCs and carbon adsorption or equivalent	86%
3	Capture of VOCs and absorption (scrubber) or equivalent	81%
4	Capture of VOCs and condensation or equivalent	81%
5	Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F	Baseline (Achieved-in-Practice)

(*) Capture efficiency (90%) x removal efficiency for control device.

Step 4 - Cost Effectiveness Analysis

A cost effective analysis must be performed for all control options that have not been determined to be achieved in practice in the list from Step 3 above, in the order of their ranking, to determine the cost effective option with the lowest emissions.

District BACT Policy APR 1305 establishes annual cost thresholds for imposed control based upon the amount of pollutants reduced by the controls. If the cost of control is at or below the threshold, it is considered a cost effective control. If the cost exceeds the threshold, it is not cost effective and the control is not required. Per District BACT Policy, the maximum cost limit for VOC reduction is $17,500 per ton of VOC emissions reduced.

BACT Analysis Assumptions – All Control Options

- Sales Tax: This facility is located in Livingston, CA, which has a current sales tax rate of 7.5%. However, pollution control equipment qualifies for a partial tax exemption in California. According to the following link, the tax exemption rate is 4.1875%, http://www.boe.ca.gov/sutax/manufacturing_exemptions.htm#Purchasers . Therefore, the sales tax rate used in this analysis will be set equal to 3.31% (7.5% - 4.1875%).
- Due to the unsteady state operation of fermentation tanks, initial source testing is expected to be a significant technical operation with significant expense, conducted over the fermentation cycle rather than the typical three 30-minute steady state measurements. An additional cost of $15,000 per control unit will be assumed for initial source testing.
- Annual source testing will also be required. It is assumed that only one representative control unit will require testing each year. An annual charge of $15,000 will be included.
- Project Contingency: For detailed estimates, the Association for the Advancement of Cost Engineering International recommends a contingency factor of 15%, while the Electric Power Research Institute recommends a contingency of 10% to 20% (ftp://ftp.repec.org/opt/ReDIF/RePEc/sip/04-005.pdf). Therefore, a cost contingency of 15% will be applied to the detailed estimates provided in these cost analyses. Additionally, since both the direct and indirect costs are detailed estimates and both of these categories of costs have uncertainty associated with them, the contingency will be applied to both the direct and indirect costs.
- Owner's Cost is the costs to cover the project management, internal engineering and operations planning required to implement a significant new process technology of this scale in a commercial winery. No Owner's Cost was specifically requested by the facility, therefore, as a conservative estimate, the Owner's Cost will be set equal to $0 for the purposes of this BACT analysis.
- In order to capture fermentation emissions from wine fermentation tanks, it is necessary to enclose the tanks and duct the captured vapors to the control device. An increase in back pressure can result from enclosing the control device and adding the duct work and control system. Increases in back pressure to the tanks causes additional CO_2 absorption into the wine, resulting in the possibility of an effervescent reaction and a foam over event. To proactively prevent catastrophic events like foam overs, it is necessary to monitor back pressure and temperature of the tanks and take immediate action if the back pressure rises to critical levels that suggest a foam over is about to occur. The cost of the equipment to monitor the pressure and temperature are included in the Programming Controller Logic (PCL) cost. In District Project C-1133347, a PCL cost of $10,000 per control system was

provided to the District. This cost will be used to estimate PCL costs for the currently proposed project.

- In addition the ducting costs calculated, the facility proposed to also include "piping" costs for each control option as allowed by EPA's Control Cost Manual, Sixth Edition (EPA/452/B-02-001); however, it can reasonably be assumed that the "piping" costs are already accounted for in the ducting costs. Therefore, the District will not include "piping" cost for each control option.
- In determining the labor costs for the cost analyses, three shifts is assumed to be appropriate for a control system wine fermentation tanks, since the emission rate from fermentation varies more and is less stable than the emission rate from wine storage.

Maximum Vapor Flow Rate

Based on the kinetic model provided by the facility, maximum CO_2 production rate for each fermentation tank group is summarized as follows:

Tank IDs	Permits	Tank Group	Nominal Tank Capacities (gallons)	Max CO_2 Flowrate for Entire Tank Group (scfm)	Max CO_2 + Fresh Air Flowrate for Entire Tank Group (scfm)
701 through 716	N-1237-502 through '-517	2a	70,000	8,803	12,573
1401 through 1416	N-1237-518 through '-533	2b	105,000	5,868	8,381
3201 through 3216	N-1237-550 through '-565	3	350,000	29,864	41,690
351 through 354	N-1237-498 through '-501	4	35,000	18,782	25,146
2101, 2102, 2105, 2106, 2109, 2110, 2113, 2114, 2117, 2118, 2121, 2122, 2125, 2126, 2129, 2130, 2133, 2134, 2137, and 2138	N-1237-534, '-535, '-538, '-539, '-542, '-543, 546, '-547, '-645, '-646, '-649, '-650, '-653, '-654, '-657, '-658, and '-764 through '-767	4	215,000		
2103, 2104, 2107, 2108, 2111, 2112, 2115, 2116, 2119, 2120, 2123, 2124, 2127, 2128, 2131, and 2132	N-1237-536, '-537, '-540, '-541, '-544, '-545, '-548, '-549, 647, '-648, '-651, '-652, '-655, '-656, '-659, and '-660	5	215,000	18,043	25,102
Total				81,360	112,892

Uncontrolled Fermentation Emissions

E & J Gallo Winery is proposing to establish a combined VOC emission limit for all fermentation and storage operations of the 178 winery tanks being modified within this project. Other than the combined VOC emission limit from these tanks, there will be no specific condition limiting the amount of wine fermentation that can take place in the 84 fermentation tanks. Therefore, for the purposes of this cost effectiveness analysis, uncontrolled fermentation VOC emissions will be set equal to the total VOC emissions allowed under the new combined limit.

Uncontrolled Fermentation PE = 191,260 lb-VOC/year

Collection System Capital Investment (based on ductwork and clean-in-place system)

A common feature of all technically feasible options is that they require installation of a collection system for delivering the VOCs from the tanks to the control device(s). Therefore, the following collection system analysis and cost estimate will be used in the cost effectiveness analysis for each control option.

Design Basis

- The costs for the ductwork and the required clean-in-place (CIP) system are based on information from the 2005 Eichleay Study. The 2005 Eichleay study was used in development of District Rule 4694 Wine Fermentation and Storage Tanks and includes substantial information on the costs and details of the potential application of VOC controls to wineries and addresses many of the technical issues of the general site specific factors for wineries.
- The District performed a cost survey of stainless steel ducting/piping and found that the values stated in the Eichleay report including the cost of inflation (applied as stated below) were cheaper; therefore, as a conservative estimate, the District will use the cost of ducting/piping from the Eichleay report which will include ducting, fittings, bolt up, handle, and install. A summary of the ducting/piping cost survey is included in Attachment F3.
- Eichleay's cost estimate for ducting included the duct, fittings, bolt up, handle and install. When additional costs, as allowed for in the EPA Control Cost Manual, were added onto the ducting cost estimate, the facility double counted some of the costs that Eichleay already accounted for in their estimate; therefore, the District did not allow the additional costs for foundations & supports, handling & erection, electrical, piping or painting.
- The facility provided a ducting cost estimate which included a redundant ducting system and redundant ducting isolation components to allow the emission control systems to continue to be operated in the event of a foam-over. The District found these redundant systems to be unnecessary and the effects of a foam-over could be mitigated or minimized with smart valving and backflow preventer design integrated into the attached ducting layout diagrams in Attachment F1. Therefore, redundant ducting has been removed from the cost estimate for the purposes of this top down BACT analysis.
- The collection system consists of stainless steel place ductwork (stainless steel is required due to food grade product status) with isolation valving, connecting the tanks to a common manifold system which ducts the combined vent to the common control device. The cost of dampers and isolation valving, installed in the ductwork, will be included in the cost estimate.

- A minimum duct size is established at six inches diameter at each tank to provide adequate strength for spanning between supports.
- One of the major concerns of a manifold duct system is microorganisms spoiling the product, and transferring from one tank to another. It is necessary to design into the system a positive disconnect of the ducting system when the tanks are not being filled. There are a number of ways this can be done. In this case, an automatic butterfly valve with a physical spool to disconnect the tank from the duct will be utilized.
- Additionally, the facility included an inflation amount of 2.75% per year from 2005 through 2015 to adjust the Eichleay cost to present value. The District found this inflation value to be unfounded and was replaced with an overall inflation amount of 21.93% which was taken from the United States Department of Labor, Bureau of Labor Statistics, Consumer Price Index (CPI) Inflation Calculator: http://www.bls.gov/data/inflation_calculator.htm.

Capital Cost of Ductwork

As detailed in the tank layout sketches and the ductwork cost calculations included in Attachment F2, the cost for each tank group is summarized below:

Tank Group 1 (wine storage tanks only):

Since this tank group only deals with wine storage tanks, the cost for the ductwork will be included in the wine storage tank top down BACT analysis in Appendix G below.

Tank Group 2 (wine storage tanks only):

Since this tank group only deals with wine storage tanks, the cost for the ductwork will be included in the wine storage tank top down BACT analysis in Appendix G below.

Tank Group 2a (wine fermentation and storage tanks):

Connection from tank to main duct = 16 tanks x 36 feet x $62.17/foot = $35,810
Main duct for fermenters = $63,014
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 16 valves x 1 system = $34,000
Unit installed cost one foot removable spool = $500/tank x 16 tanks x 1 system = $8,000
1 Knockout drum = $46,300
Duct support allowance = $60,000

Total for Group 2a = $35,810 + $63,014 + $34,000 + $8,000 + $46,300 + $60,000
= $247,124

Tank Group 2b (wine fermentation and storage tanks):

Connection from tank to main duct = 16 tanks x 30 feet x $103.25/foot = $49,560
Main duct for fermenters = $108,659
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 16 valves x 1 system = $34,000
Unit installed cost one foot removable spool = $500/tank x 16 tanks x 1 system = $8,000
1 Knockout drum = $46,300
Duct support allowance = $80,000

Total for Group 2b = $49,560 + $108,659 + $34,000 + $8,000 + $46,300 + $80,000
= $326,519

Tank Group 3 (wine storage tanks only):

Since this tank group only deals with wine storage tanks, the cost for the ductwork will be included in the wine storage tank top down BACT analysis in Appendix G below.

Tank Group 3a (wine fermentation and storage tanks):

Connection from tank to main duct = 16 tanks x 54.04 feet x $143.83/foot = $124,361
Main duct for fermenters = $331,000
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 16 valves x 1 system = $34,000
Unit installed cost one foot removable spool = $500/tank x 16 tanks x 1 system = $8,000
1 Knockout drum = $46,300
Duct support allowance = $60,000

Total for Group 3a = $124,361 + $331,000 + $34,000 + $8,000 + $46,300 + $60,000
= $603,661

Tank Group 4 (wine storage tanks only):

Since this tank group only deals with wine storage tanks, the cost for the ductwork will be included in the wine storage tank top down BACT analysis in Appendix G below.

Tank Group 4a (wine fermentation and storage tanks):

Connection from 35k tanks to main duct = 4 tanks x 43.04 feet x $62.17/foot = $10,703
Connection from 215k tanks to main duct = 16 tanks x 49.59 feet x $144.33/foot = $114,517
Main duct for fermenters = $166,287
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 20 valves x 1 system = $42,500
Unit installed cost one foot removable spool = $500/tank x 20 tanks x 1 system = $10,000
1 Knockout drum = $46,300
Duct support allowance = $60,000

Total for Group 4a = $10,703 + $114,517 + $166,287 + $42,500 + $10,000 + $46,300 + $60,000
= $450,307

Tank Group 5 (wine storage tanks only):

Since this tank group only deals with wine storage tanks, the cost for the ductwork will be included in the wine storage tank top down BACT analysis in Appendix G below.

Tank Group 5a (wine fermentation and storage tanks):

Connection from tanks to main duct = 16 tanks x 49.59 feet x $108.25/foot = $85,890
Main duct for fermenters = $40,253
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 16 valves x 1 system = $34,000
Unit installed cost one foot removable spool = $500/tank x 16 tanks x 1 system = $8,000
1 Knockout drum = $46,300
Duct support allowance = $60,000

Total for Group 5a = $85,890 + $40,253 + $34,000 + $8,000 + $46,300 + $60,000
= $274,443

Total Capital Cost for All Tank Groups:

The total capital cost of the ductwork for all five tank groups that contain wine fermentation tanks is summarized in the table below:

Tank Group	Total Ducting Cost Including Support Allowance
2a	$247,124
2b	$326,519
3a	$603,661
4a	$450,307
5a	$274,443
Total	$1,902,054

Capital Cost of Ductwork for Wine Fermentation Tanks	
Cost Description	Cost ($)
Combined Duct Estimate for all Tank Groups (See Duct Sizing in Attachment F2)	$1,902,054
Adjusting factor for inflation from 2005 dollars to 2015 dollars (21.93% total increase)	1.2193
Inflation adjusted duct cost	$2,319,174
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Ductwork) See Above	$2,319,174
Instrumentation (not required)	-
Sales Tax - 3.31% of base equipment	$76,765
Freight - 5% of base equipment	$115,959
Purchased equipment cost (PEC)	**$2,511,898**
Foundations & supports 8% (allowance already included in cost estimate)	-
Handling & erection 14% (already included in Eichleay cost estimate)	-
Electrical 4% (not required)	-
Piping 2% (not required)	-
Painting 1% (not required)	-
Insulation 1% of PEC	$25,119
Direct Installation Costs (DIC)	**$25,119**
Total Direct Costs (DC) (PEC + DIC)	**$2,537,017**
Indirect Costs	
Engineering - 10% of PEC	$251,190
Construction and field expenses - 5% of PEC	$125,595
Contractor Fees - 10% of PEC	$251,190
Start-up - 2% of PEC	$50,238
Performance Test - 1% of PEC	$25,119
Total Indirect Costs (IC)	**$703,332**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,240,349**
Contingencies – 15% of SCI	$486,052
Total Capital Investment (TCI) (SCI + Contingency)	**$3,726,401**

Capital Cost Clean-In-Place (CIP) System

A ducting system on a tank farm must have this system to maintain sanitation and quality of the product. The cost of operation of the CIP system has not been estimated. Operation of a CIP system, using typical cleaning agents, will raise disposal and wastewater treatment costs. Most likely, these costs will be significant.

Capital Cost of Clean-In-Place (CIP) System of Ductwork for Wine Fermentation Tanks	
Cost Description	Cost ($)
Current cost of CIP system ($200,000 x 5 tank ducting groups)	$1,000,000
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (CIP System) See Above	$1,000,000
Instrumentation - 10% of base equipment	$100,000
Sales Tax - 3.31% of base equipment	$33,100
Freight - 5% of base equipment	$50,000
Purchased equipment cost (PEC)	**$1,183,100**
Foundations & supports - 8% of PEC	$94,648
Handling & erection - 14% of PEC	$165,634
Electrical - 4% of PEC	$47,324
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$11,831
Insulation - 1% of PEC	$11,831
Direct Installation Costs (DIC)	**$331,268**
Total Direct Costs (DC) (PEC + DIC)	**$1,514,368**
Indirect Costs	
Engineering - 10% of PEC	$118,310
Construction and field expenses - 5% of PEC	$59,155
Contractor fees - 10% of PEC	$118,310
Start-up - 2% of PEC	$23,662
Performance test - 1% of PEC	$11,831
Total Indirect Costs (IC)	**$331,268**
Subtotal Capital Investment (SCI) (DC + IC)	**$1,845,636**
Contingencies - 15% of SCI	$276,845
Total Capital Investment (TCI) (SCI + Contingency)	**$2,122,481**

Annualized Capital Costs

Total capital costs = Ductwork + CIP System
= $3,726,401 + $2,122,481
= $5,848,882

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Total Collection System Annualized Capital Investment = $5,848,882 x 0.163

Total Collection System Annualized Capital Investment = $953,368

Option 1 - Collection of VOCs and Control by Thermal Oxidation (88% collection & control):

Thermal Oxidizer Capital Cost

A total capital investment cost for five Regenerative Thermal Oxidizers (RTOs) was provided by B&W Megtec on January 7, 2016 for RTOs handling the five fermentation tank groupings referenced in the top down BACT analysis above. Therefore, this cost estimate will be used in this project as a conservative estimate

Control Unit	Tank Group	Total RTO Equipment Budget Price Including Support Allowance	RTO Installation Cost
RTO EU2	2a	$394,100	$25,000
RTO EU3	2b	$333,600	$25,000
RTO EU4	3	$797,800	$47,000
RTO EU6	4	$540,800	$27,900
RTO EU7	5	$582,300	$28,500
	Total	$2,648,600	$153,400

Thermal Oxidation Capital Cost	
Cost Description	Cost ($)
Regenerative Thermal Oxidizer cost (five units)	$2,648,600
Installation cost (provided by B&W Megtec)	$153,400
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs for Regenerative Thermal Oxidizer System (see above)	$2,802,000
Instrumentation - 10% of base equipment	$280,200
Sales Tax - 3.31% of base equipment	$92,746
Freight - 5% of base equipment	$140,100
Purchased equipment cost (PEC)	**$3,315,046**
Foundations & supports - 8% of PEC	$265,204
Handling & erection - 14% of PEC	$464,106
Electrical - 4% of PEC	$132,602
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$33,150
Insulation - 1% of PEC	$33,150
PLC/Programming - 5 units x $10,000	$50,000
Direct installation costs	**$978,212**
Total Direct Costs (DC)	**$4,293,258**
Indirect Costs	
Engineering - 10% of PEC	$331,505
Contractor fees - 10% of PEC	$331,505
Start-up (provided by B&W Megtec)	$75,000
Initial Source Testing - 5 units x $15,000/unit	$75,000
Owner's Cost (allowance not requested)	-
Total Indirect Costs (IC)	**$813,010**
Subtotal Capital Investment (SCI) (DC + IC)	**$5,106,268**
Contingencies - 15% of SCI	$765,940
Total Capital Investment (TCI) (SCI + Contingency)	**$5,872,208**

Annualized Capital Costs

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = $5,872,208 x 0.163 = $957,170

Operation and Maintenance Costs

The Direct annual costs include labor (operating, supervisory, and maintenance), maintenance materials, electricity, and fuel.

Heat of Combustion for waste gas stream -dh(c):

heat of combustion -dHc	= 11,800 Btu/lb for ethanol
Daily VOC emissions rate	= 47,024 lb/day (from calculations in Appendix B)
Blower flow rate	= 112,892 scfm (includes CO_2 + fresh air flowrate from MEGTEC quote)
	= 162,564,480 ft^3/day

-dh(c) = 47,024 lb/day x 11,800 Btu/lb ÷ 162,564,480 ft^3/day
= 3.41 Btu/ft^3

Assuming the waste gas is principally air, with a molecular weight of 28.97 and a corresponding density of 0.0739 lb/scf, the heat of combustion per pound of incoming waste gas is:

-dh(c) = 3.41 Btu/ft^3 ÷ 0.0739 lb/ft^3
= 46.14 Btu/lb

Fuel Flow Requirement

$$Q(fuel) = \frac{Pw*Qw*\{Cp*[1.1Tf-Tw-0.1Tr]-[-dh(c)]\}}{P(ef) * [-dh(m) - 1.1\ Cp * (Tf - Tr)]}$$

Where
- Pw = 0.0739 lb/ft^3
- Cp = 0.255 Btu/lb-°F
- Qw = 112,892 scfm
- -dh(m) = 11,800 Btu/lb for ethanol
- Tr = 77°F assume ambient conditions
- P(ef) = 0.0408 lb/ft^3, methane at 77°F, 1 atm
- Tf = 1,600°F
- Tw = 1,525°F
- -dh(c) = 46.14 Btu/lb

$$Q = \frac{0.0739*112,892*\{0.255*[1.1*1,600-1,525-0.1*77]-46.14\}}{0.0408*[11,800 - 1.1*0.255*(1,600 - 77)]}$$

$$= 98,623 \div 464 = 213\ ft^3/min$$

Fuel Costs

The cost for natural gas shall be based upon the average price of natural gas sold to "Commercial Consumers" in California for the years 2013, 2013 and 2015.[1]

2015 = $7.98/thousand ft^3 total monthly average
2014 = $9.05/thousand ft^3 total monthly average
2013 = $7.81/thousand ft^3 total monthly average
Average for three years = $8.28/thousand ft^3 total monthly average

Fuel Cost = 213 cfm x 1440 min/day x 90 day/year x $8.28/1000 ft^3
= $228,568/year

[1] Energy Information Administration/Natural Gas; Average Price of Natural Gas Sold to Commercial Consumers by State, 2013 – 2015.

Electricity Requirement

$$\text{Power}_{fan} = \frac{1.17*10^{-4}\ Qw*\ \Delta P}{\in}$$

Where

ΔP = Pressure drop Across system = 4 in. H_2O

$\in$ = Efficiency for fan and motor = 0.6

Qw = 112,862 scfm

$$\text{Power}_{fan} = \frac{1.17*10^{-4}*112{,}862\ \text{cfm}*\ 4\ \text{in. } H_2O}{0.60}$$

$$= 88.03\ \text{kW}$$

Electricity Costs

Average cost of electricity to commercial users in California[2]:

2015 Average = $0.1579/kWh

Electricity Cost = 88.03 kW x 24 hours/day x 90 days/year x $0.1579/kWh = $30,024/year

Total Operating and Maintenance Costs

Annual Costs (Based on: EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.2: VOC Destruction Controls, Chapter 2: Incinerators (September 2000), Table 2.10 - Annual Costs for Thermal and Catalytic Incinerators Example Problem. United States Environmental Protection Agency Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina 27711. EPA/452/B-02-001)[3].

[2] Energy Information Administration/Electric Power; Average Retail Price of Electricity to Ultimate Customers by End-Use Sector, by State, 2015 http://www.eia.gov/electricity/data/browser/#/topic/7?agg=0,1&geo=000000000004&endsec=vg&freq=A&start=2001&end=2015&ctype=linechart&ltype=pin&rtype=s&maptype=0&rse=0&pin=.

[3] http://epa.gov/ttn/catc/dir1/cs3-2ch2.pdf.

Thermal Oxidizer Annual Costs			
Direct Annual Cost (DAC)			
Operating Labor			
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 5 units	$12,488
Supervisor	15% of operator		$1,873
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 5 units	$12,488
Maintenance	100% of labor		$12,488
Utility			
Natural Gas	see calculation above		$228,568
Electricity	see calculation above		$30,024
Total DAC			**$297,929**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($12,488 + $1,873 + $12,488 + $12,488)	$23,602
Administrative	2% of TCI		$117,444
Property Taxes	1% of TCI		$58,722
Insurance	1% of TCI		$58,722
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$273,490**
Annual Operating Cost (DAC + IAC)			**$571,419**

Total Annual Cost

Total Annual Cost = Regenerative Thermal Oxidizer System + Annual Cost + Ductwork/CIP Cost
= $957,170 + $571,419 + $953,368
= $2,481,957

Emission Reductions

Annual Emission Reduction = Fermentation Emissions x 0.88
= 191,260 lb-VOC/year x 0.88
= 168,309 lb-VOC/year
= 84.15 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,481,957/year ÷ 84.15 tons-VOC/year
= $29,494/ton-VOC

The analysis demonstrates that the annualized purchase cost of the regenerative thermal oxidizer system, collection system ductwork and CIP equipment, and annual costs results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 2 - Collection of VOCs and Control by Carbon Adsorption (86% collection and control):

Design Basis

- Additional costs which were conservatively not evaluated in the cost analysis below include but are not limited to:
  - The cost for a tank to collect the condensed ethanol laden steam from regeneration of the carbon bed.
  - Annual steam costs required to regenerate the carbon beds.
  - Annual cooling water costs required to condense the ethanol laden steam from regeneration of the carbon beds and the condenser equipment.
  - Electricity costs of system fans, bed drying/cooling fans and cooling water pumps.
- Ethanol laden water is a byproduct produced when the carbon is regenerated with steam and the ethanol laden steam is condensed. The collected ethanol laden water will need to be disposed of and can be a significant cost; however, conservatively, the costs will not be included at this time.

Capital Cost for Carbon Adsorption Equipment

The District contacted suppliers of carbon adsorption systems to obtain cost estimates for a system designed to handle the total flow rate from the fermentation tanks being proposed under this project. However, as of the time of this analysis, the District has not yet received replies from the carbon adsorption system suppliers. Therefore, the equipment cost for a carbon adsorption system used in this analysis will be based on the cost of a budgetary estimate for a 1,000 cfm system controlling wine fermentation tanks supplied by David Drewelow of Drewelow Remediation Equipment, Inc. on February 3, 2015 of $80,000 to $85,000. This system would include a gas/liquid separator, an inline filter, blower, exhaust silencer and air to air heat exchanger. Therefore, the cost for a carbon adsorption system handling 1,000 cfm will be conservatively estimated to be $80,000.

As shown above, the airflow rates of the control systems needed to control the fermentation tank groups in this project are larger than 1,000 cfm. In order to estimate the capital cost of the carbon adsorption system equipment needed for each tank group, the cost value referenced above will need to be scaled. To be conservative, the cost will not be scaled linearly but instead, the cost will be adjusted up to the

required flow rates using the 6/10 power rule[4]. The 6/10 power rule is a way to account for economies of scale (the larger the equipment is, the lower the cost of equipment per unit of capacity[5]) and is considered generally accurate to within ± 20%. To account for the accuracy within ± 20% and to address EPA's concern with using this scaling method as expressed in their comments made on previous District project N-1133555, the District will conservatively use a modified 6/10 power rule and adjust the scaled cost down by 20%. A sample modified 6/10 power rule calculation for tank group 2a is shown below and results in the following estimated capitol cost for a carbon adsorption system designed to handle 8,803 cfm:

Capitol Cost $= Cost_{base} \times [(Capacity_{new}/Capacity_{base})^{0.6}] \times (1 - 0.2)_{Accuracy\ Adjustment}$
$= \$80,000 \times [(8,803/1,000)^{0.6}] \times 0.8$
$= \$236,160$

A summary of the carbon adsorption system equipment costs for each tank group are summarized in the following table:

Tank Group	Max CO_2 Flowrate for Tank Group (scfm)	$(Capacity_{new}/Capacity_{base})^{0.6}$	Accuracy Adjustment	Cost for 1,000 cfm System	Estimated Capital Cost for Tank Group
2a	8,803	3.69	0.8	$80,000	$236,160
2b	5,868	2.89	0.8	$80,000	$184,960
3	29,864	7.68	0.8	$80,000	$491,520
4	18,782	5.82	0.8	$80,000	$372,480
5	18,043	5.67	0.8	$80,000	$362,880
Total					$1,648,000

Capital Cost for Carbon for System

Annual Emission Reduction = Fermentation Emissions x 0.86
= 191,260 lb-VOC/year x 0.86
= 164,484 lb-VOC/year

Assume a working bed capacity of 20% for carbon (weight of vapor per weight of carbon)

Carbon required = 164,484 lb-VOC/year x 1/0.20
= 822,420 lb carbon

David Drewelow also provided a cost of $1.25/lb of carbon which does not include any delivery or servicing fees.

Annual carbon cost = $1.25/lb = $1.25/lb x 822,420 lb carbon = $1,028,025

[4] See the following websites for additional information: http://www.pdhonline.org/courses/g127/g127content.pdf
[5] http://faculty.ksu.edu.sa/5556/Documents/Chapter%205.ppt

Carbon Adsorption Capital Cost		
Cost Description	Equipment Cost ($)	Carbon Cost ($)
Carbon Adsorption System Cost (see above)	$1,648,000	-
Water alcohol tank cost (not included)	-	-
Carbon Capital Cost (see above)	-	$1,028,025
The following cost data is based on the EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002) (EPA/452/B-02-001).		
Direct Costs		
Base Equipment Costs (Carbon Adsorption System + Water Alcohol Tank + Carbon) See Above	$1,648,000	$1,028,025
Instrumentation - 10% of base equipment	$164,800	-
Sales Tax - 3.31% of base equipment	$54,549	$34,028
Freight - 5% of base equipment	$82,400	$51,401
Purchased Equipment Cost (PEC)	**$1,949,749**	**$1,113,454**
Foundations & supports - 8% of PEC	$155,980	-
Handling & erection - 14% of PEC	$272,965	-
Electrical - 4% of PEC	$77,990	-
Piping – accounted for in ductwork cost	-	-
Painting - 1% of PEC	$19,497	-
Insulation - 1% of PEC	$19,497	-
PLC/Programming - $10,000 x 5 tank groups	$50,000	-
Direct installation costs	**$595,929**	**$0**
Total Direct Costs (DC)	**$2,545,678**	**$1,113,454**
Indirect Costs		
Engineering - 10% of PEC	$194,975	-
Construction and field expenses - 5% of PEC	$97,487	-
Contractor fees - 10% of PEC	$194,975	-
Start-up - 2% of PEC	$38,995	-
Initial Source Testing - 5 units x $15,000/unit	$75,000	-
Owner's Cost (allowance not requested)	-	-
Total Indirect Costs (IC)	**$601,432**	**$0**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,147,110**	**$1,113,454**
Contingencies - 15% of SCI	$472,067	
Total Capital Investment (TCI) (SCI + Contingency)	**$3,619,177**	**$1,113,454**

Annualized Capital Cost for Carbon Adsorption Equipment

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment for Carbon Adsorption Equipment = $3,619,177 x 0.163 = $589,926

Annualized Cost for Carbon for System

The EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.1: VOC Recapture Controls, Chapter 1: Carbon Adsorbers (September 1999)[6] states, "*A typical life for the carbon is five years. However, if the inlet contains VOCs that are very difficult to desorb, tend to polymerize, or react with other constituents, a shorter carbon lifetime— perhaps as low as two years—would be likely.*"

Assuming the maximum carbon life of five years and a 10% interest rate the capitol recovery cost for the carbon =

$\left[\frac{0.1(1.1)^{5}}{(1.1)^{5}-1}\right]$ = 0.264 over 5 years at 10% interest

Therefore,

Annualized Capital Investment for Carbon for System = $1,113,454 x 0.264 = $293,952

Annualized Cost of Carbon Adsorption Equipment + Annualized Cost of Carbon for System

Annualized Capital Cost for Carbon Adsorption System = $589,926 + $293,952 = $883,878

Total Operation and Maintenance Costs

The annual operation and maintenance costs for the carbon adsorption system are based on the information given in the EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.1: VOC Recapture Controls, Chapter 1: Carbon Adsorbers (September 1999)[7]. No value will be given for the ethanol that may be potentially recovered since this ethanol could actually result in additional disposal costs, which will also not be quantified in this analysis.

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[6] EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.1: VOC Recapture Controls, Chapter 1: Carbon Adsorbers (September 1999). United States Environmental Protection Agency Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina 27711, EPA/452/B-02-001, http://epa.gov/ttn/catc/dir1/cs3-1ch1.pdf.

Carbon Adsorption Annual Costs			
Direct Annual Cost (DAC)			
Operating Labor			
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 5 units	$12,488
Supervisor	15% of operator		$1,873
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 5 units	$12,488
Maintenance	100% of labor		$12,488
Utility			
Natural Gas from Steam Production (not included)			-
Electricity (not included)			-
Total DAC			**$39,337**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($12,488 + $1,873 + $12,488 + $12,488)	$23,602
Administrative	2% of TCI		$72,384
Property Taxes	1% of TCI		$36,192
Insurance	1% of TCI		$36,192
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$183,370**
Annual Cost (DAC + IAC)			**$222,707**

Total Annual Cost for Carbon Adsorption

Total Annual Cost = Carbon Adsorption Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $883,878 + $222,707 + $953,368
= $2,059,953

Emission Reductions

Annual Emission Reduction = Fermentation Emissions x 0.86
= 191,260 lb-VOC/year x 0.86
= 164,484 lb-VOC/year
= 82.24 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,059,953/year ÷ 82.24 tons-VOC/year
= $25,048/ton-VOC

The analysis demonstrates that the annualized purchase cost of the carbon adsorption system and collection system ductwork and CIP equipment results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 3 - Collection of VOCs and Control by Absorption/Scrubber (81% collection & control):

Design Basis

- The District contacted Maurice McIntosh and Ad Verkuylen of NohBell Corporation on March 16, 2016 to allow NohBell Corporation an opportunity to provide cost information for this project. The District did not receive updated cost information from NohBell Corporation; therefore, cost estimates from NohBell Corporation will not be included as a part of this BACT analysis.
- Recovered ethanol storage tank = $40,000/tank group (installed, as proposed in Project C-1133347)
- Connected electrical load for each unit is 2.5 horsepower which is assumed to operate continuously for 90 days.
- Electric power cost = $0.1579/kWh (see RTO Top Down BACT Analysis section above)
- Since the EPA Control Cost Manual does not contain a section for wet scrubbers controlling VOCs, conservatively, the costs in addition to the base equipment costs, will be estimated from the Wet Scrubbers for Particulate Matter control from the EPA Control Cost Manual.

Equipment Cost Scrubber

The total capital investment and installation cost for a scrubber (absorption technology) was provided by Babcock and Wilcox MEGTEC on January 12, 2016 and D. R Technology on December 11, 2015. Cost estimates for scrubber systems were also provided from Envitech on January 4, 2016 and Schutte & Koerting on November 30, 2015. However, these two cost estimates did not include cleaning spray nozzles, pumps, piping and fans. With the exclusion of these items, the cost estimates were determined to not be representative of the total costs that would be required to install a scrubber to serve this project's needs. Therefore, these two cost estimates are not being included as a part of this top down BACT analysis. The cost estimates from MEGTEC and D. R. Technology are summarized in the table below:

Control Unit	Tank Group	MEGTEC Scrubber Equipment Budget Price*	D. R Technology Scrubber Equipment Budget Price
2	2a	Not provided	$210,000
3	2b	Not provided	$175,000
4	3	Not provided	$350,000
6	4	Not provided	$270,000
7	5	Not provided	$270,000
Total:		$1,285,000	$1,275,000

*This supplier only provided a total equipment price for five packed tower scrubbers and did not provide individual control unit pricing for each tank group.

Scrubber Capital Cost	
Cost Description	Cost ($)
Scrubber System (five units)	$1,275,000
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Scrubber System) See Above	$1,275,000
Instrumentation - 10% of base equipment	$127,500
Sales Tax - 3.31% of base equipment	$42,203
Freight - 5% of base equipment	$63,750
Purchased Equipment Cost (PEC)	**$1,508,453**
Foundations & supports – 6% of PEC	$90,507
Handling & erection - 40% of PEC	$603,381
Electrical - 1% of PEC	$15,085
Piping - accounted for in ductwork cost	-
Painting - 1% of PEC	$15,085
Insulation - 3% of PEC	$45,254
PLC/Programming - $10,000 x 5 tank groups	$50,000
Recovered Ethanol Storage Tank (installed) ($40,000 x 5 tank groups)	$200,000
Direct Installation Costs (DIC)	**$1,019,312**
Direct Costs (DC) (PEC + DIC)	**$2,527,765**
Indirect Costs	
Engineering - 10% of PEC	$150,845
Construction and field expenses - 10% of PEC	$150,845
Contractor fees - 10% of PEC	$150,845
Start-up - 1% of PEC	$15,085
Initial Source Testing - 5 units x $15,000/unit	$75,000
Owner's Cost (allowance not requested)	-
Indirect Costs (IC)	**$542,620**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,070,385**
Contingencies - 15% of SCI	$460,558
Total Capital Investment (TCI) (SCI + Contingency)	**$3,530,943**

Annualized Capital Costs

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = $3,530,943 x 0.163 = $575,544

Wastewater Disposal Costs

Additionally, the water scrubber will generate ethanol-laden wastewater containing 77.46 tons-ethanol annually (191,260 lb/year (uncontrolled fermentation emissions) x 0.81 ÷ 2000). Assuming a 10% solution, approximately 234,018 gallons of waste water (77.46 ton-ethanol x 2000 lb/ton x gal/6.62 lb ÷ 0.10) will be generated annually. Per project C-1133347, an allowance of $0.08 per gallon is applied for disposal costs.

Annual disposal costs = 234,018 gallons x $0.08/gallon = $18,721

Total Operation and Maintenance Costs

Scrubber Annual Costs				
Direct Annual Cost (DAC)				
Operating Labor				
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 5 units		$12,488
Supervisor	15% of operator			$1,873
Maintenance				
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 5 units		$12,488
Maintenance	100% of labor			$12,488
Wastewater Disposal				
	10% Solution = 234,018 gal		$0.08/gal	$18,721
Utility				
Electricity	5 units x 2.5 hp x 0.746 kW/hp x 2,160 hr/yr = 20,142 kWh/yr		$0.1579/kWh	$3,180
Total DAC				**$61,238**
Indirect Annual Cost (IAC)				
Overhead	60% of Labor Cost	0.6 x ($12,488 + $1,873 + $12,488 + $12,488)		$23,602
Administrative	2% of TCI			$70,618
Property Taxes	1% of TCI			$35,309
Insurance	1% of TCI			$35,309
Annual Source Test	One representative test/year @ $15,000			$15,000
Total IAC				**$179,838**
Annual Cost (DAC + IAC)				**$241,076**

Total Annual Cost = Scrubber Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $575,544 + $241,076 + $953,368
= $1,769,988

Emission Reductions

The District's BACT Guideline identifies an overall collection and control efficiency of 81% for absorption systems.

Annual Emission Reduction = Uncontrolled Fermentation Emissions x 0.81
= 191,260 lb-VOC/year x 0.81
= 154,921 lb-VOC/year
= 77.46 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $1,769,988/year ÷ 77.46 tons-VOC/year
= $22,850/ton-VOC

The analysis demonstrates that the annualized purchase cost of the water scrubber and annual costs results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 4 - Capture of VOCs and Condensation (81% collection & control):

Design Basis

- Although the EcoPAS LLC (EcoPAS) condenser (PAS) units have not been demonstrated at the scale of operation as proposed by this project, the District will conservatively assume that the equipment and cost proposed by EcoPAS will meet the duty requirements for the project.
- Additional costs which were conservatively not evaluated in the cost analysis below include but are not limited to:
    - Glycol chiller system.
- This control technology recovers ethanol which potentially requires additional cost to dispose of. The District currently knows of two winery facilities that recover ethanol: Central Coast Wine Services and Terravant Winery, both located within the Santa Barbara County. Information from the Santa Barbara County APCD indicates that neither facility generates any revenue from the recovered ethanol. Central Coast Wine Services sends their recovered ethanol to a facility in San Luis Obispo that refines the recovered ethanol into motor vehicle fuels and Terravant Winery utilizes a UV system to destroy the ethanol. Although EcoPAS claims that there is value in the recovered ethanol in a future market that may be developed, the District will conservatively assume that there is no cost required to dispose/treat the recovered ethanol nor is there a value in the recovered ethanol.

Equipment Cost Refrigerated Condenser

Due to the large number of winery tanks in this project and the large volume of those tanks, it is necessary to use multiple PAS units to control the emissions from each tank group. Pricing for the PAS units will be based on project specific pricing received from EcoPAS on March 28, 2016.

In addition to the base equipment cost (as referred to as CapEx by EcoPAS), EcoPAS provided additional cost for stainless steel ducting, installation cost (which includes hoses, capture vessels, pressure release valves, instrumentation, freight, taxes, and engineering) and annual cost (which includes both direct and indirect costs, labor, testing, maintenance, overhead and administration). The District has requested a detailed breakdown of the cost of each component of each cost category from the vendor but has yet to receive the additional information; therefore, the base equipment cost will be used as provided by the vendor and remaining costs associated with the installation of refrigerated condensers will be taken from other sources such as the Eichleay Report and the EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).

Condensation Capital Cost	
Cost Description	Cost ($)
Cost of Refrigerated Condenser system (58 PAS Units)	$11,310,000
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Condenser) See Above	$11,310,000
Instrumentation - 10% of base equipment	$1,131,000
Sales Tax - 3.31% of base equipment	$374,361
Freight - 5% of base equipment	$565,500
Purchased equipment cost (PEC)	**$13,380,861**
Foundations & supports - 14% of PEC	$1,873,321
Handling & erection - 8% of PEC	$1,070,469
Electrical - 8% of PEC	$1,070,469
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$133,809
Insulation - 10% of PEC	$1,338,086
PLC & Programming - 58 units x $10,000	$580,000
Direct Installation Costs (DIC)	**$6,066,154**
Total Direct Costs (DC) (PEC + DIC)	**$19,447,015**
Indirect Costs	
Engineering - 10% of PEC	$1,338,086
Construction and field expenses - 5% of PEC	$669,043
Contractor fees - 10% of PEC	$1,338,086
Start-up - 2% of PEC	$267,617
Source Testing - 58 units x $15,000/unit	$870,000
Owner's Cost (allowance not requested)	-
Total Indirect Costs (IC)	**$4,482,832**
Subtotal Capital Investment (SCI) (DC + IC)	**$23,929,847**
Contingencies - 15% of SCI	$3,589,477
Total Capital Investment (TCI) (DC + IC)	**$27,519,324**

Annualized Capital Costs

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = $27,519,324 x 0.163 = $4,485,650

Total Operation and Maintenance Costs

Condensation Annual Costs			
Direct Annual Cost (DAC)			
Operating Labor			
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 58 units	$144,855
Supervisor	15% of operator		$21,728
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 90 days/year x 58 units	$144,855
Maintenance	$144,855		$144,855
Chiller (Glycol)			
Not included at this time			-
Utility (Electricity)			
Not included at this time			-
Total DAC			**$456,293**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($144,855 + $21,728 + $144,855 + $144,855)	$273,776
Administrative	2% of TCI		$550,386
Property Taxes	1% of TCI		$275,193
Insurance	1% of TCI		$275,193
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$1,389,548**
Annual Cost (DAC + IAC)			**$1,845,841**

Total Annual Cost = Condenser Capital Cost + Annual Operating Cost + Ductwork/Piping Cost
= $4,485,650 + $1,845,841 + $953,368
= $7,284,859

Emission Reductions

EcoPAS has indicated the PAS unit is capable of achieving a capture and control efficiency of 90%. However, the District's current BACT Guideline identifies a combined capture and control efficiency of 81% for condensation technology. The capture and control efficiency of 81% will be used in this analysis as the value of 90% has yet to be shown to be feasible.

Annual Emission Reduction = Uncontrolled Fermentation Emissions x 0.81
= 191,260 lb-VOC/year x 0.81
= 154,921 lb-VOC/year
= 77.46 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $7,284,859/year ÷ 77.46 tons-VOC/year
= $94,047/ton-VOC

The analysis demonstrates that the annualized purchase cost of the refrigerated condenser system and annual costs results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 5 - Temperature Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F):

The only remaining control option in step 3 above has been deemed AIP for this class and category of source and per the District BACT policy is required regardless of the cost. Therefore, a cost effectiveness analysis is not required.

Step 5 – Select BACT

All identified feasible options with control efficiencies higher than the option proposed by the facility have been shown to not be cost effective. Each of these wine fermentation tanks is already equipped and/or operated in a manner that complies with Option 5, temperature-controlled open top tank with maximum average fermentation temperature of 95 deg F. These BACT requirements will be placed on the ATCs as enforceable conditions.

Attachment F1

Achieved-in-Practice Analysis

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT MEMO

DATE: February 9, 2015 (Revised May 9, 2016)

TO: Dave Warner, Deputy APCO

FROM: Nick Peirce, Permit Services Manager
James Harader, Senior Air Quality Engineer
Jag Kahlon, Air Quality Engineer

SUBJECT: Achieved in Practice Analysis for Emission Control Technologies Used to Control VOC Emissions from Wine Fermentation Tanks

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Introduction

The purpose of this analysis is to determine whether there is any control technologies that can be considered to be Achieved in Practice BACT for controlling fermentation VOC emissions from wine fermentation tanks. If determined to be achieved in practice, the San Joaquin Valley Air Pollution Control District (District) would require the use of such technology for wine fermentation tanks when BACT is triggered, without any consideration of the cost effectiveness of the control technology. The District's achieved in practice BACT is functionally equivalent to Federal EPA's Lowest Achievable Emission Rate requirements outlined in Federal Non-Attainment NSR documents.

LAER

The emission control requirement for new Major Sources and Federal Major Modifications in non-attainment areas is that the emission units meet the lowest achievable emission rate (LAER). LAER is the most stringent emission limitation from either of the following:

1. The most stringent emission limitation contained in the implementation plan of any State for such class and category of source; or
2. The most stringent emission limitation achieved in practice by such class or category of source.

In no event can the LAER requirement be less stringent than Federal New Source Performance Standards (NSPS), if there is an NSPS applicable to the type of source being evaluated.

In the case of wine fermentation tanks, the District did not identify any SIP that would require the use of add-on control systems. Therefore, add-on control systems can only be required as LAER for wine fermentation if they are determined to be achieved in practice for the source category.

Achieved in Practice Criteria

The term "achieved in practice" appears to be subject to interpretation since it is not defined in the federal statutes or regulations. As a result, there are few objective regulatory criteria to constrain the form of an achieved in practice determination. The following discussion outlines the achieved in practice criteria that is used by the District for determining LAER.

In a February 28, 1989 memorandum titled "Guidance on Determining Lowest Achievable Emission Rate (LAER), EPA provided the following guidance concerning the economic feasibility of LAER:

> *Traditionally, little weight has been given to economics in LAER determinations, and this continues to be the case. The extract in your memorandum from the record of the House and Senate discussion of the Clean Air Act (Act) contains the sentence:*
>
> > *"If the cost of a given control strategy is so great that a new major source could not be built or operated, then such a control would not be achievable and could not be required by the Administrator."*
>
> *We interpret this statement in the record to be used in a generic sense. That is, that no new plants could be built in that industry if emission limits were based on levels achievable only with the subject control technology. However, if some other plant in the same (or comparable) industry uses that control technology, then such use constitutes de facto evidence that the economic cost to the industry of that technology control is not prohibitive. Thus, for a new source in that same industry, LAER costs should be considered only to the degree that they reflect unusual circumstances which, in some manner, differentiate the cost of control for that source from the costs of control for the rest of that industry. These unusual circumstances should be thoroughly analyzed to ensure that they really do represent compelling reasons for not requiring a level of control that similar sources are using. Therefore, when discussing costs, applicants should compare the cost of control for the proposed source to the costs for source(s) already using that level of control.*

The statement *"If some other plant in the same (or comparable) industry uses that control technology, then such use constitutes de facto evidence that the economic cost to the industry of that technology control is not prohibitive"* is only true if the plant using that control technology purchased or leased that control technology. Scenarios where the purchase/lease of the control technology was subsidized with grant money, or where the plant allowed the control vendor to operate and test their equipment on-site without actually purchasing/leasing the control technology do not constitute evidence that the economic cost to the industry due to use of that technology control is not prohibitive. Therefore, the District's historical position is that a control technology must have been purchased or leased by the plant in order for that installation of the control technology to be considered as achieved in practice.

EPA Region IX has previously stated that the successful operation of a new control technology for six months constitutes achieved in practice. This position was established in an August 25, 1997 letter from David Howekamp of US EPA Region IX to Moshen Nazemi of South Coast Air Quality Management District. This guidance is reflected in the South Coast Air Quality Management District's BACT Policy, which includes the following criteria for determining whether a control technology is achieved in practice:

> *Reliability: All control technologies must have been installed and operated reliably for at least six months. If the operator did not require the basic equipment to operate daily, then the equipment must have at least 183 cumulative days of operation. During this period, the basic equipment must have operated: 1) at a minimum of 50% design capacity; or 2) in a manner that is typical of the equipment in order to provide an expectation of continued reliability of the control technology.*

For wine fermentation tanks, the District has taken the position that successful operation of a control device for one full fermentation season is satisfactory for qualifying a control as achieved in practice. The requirement of one full fermentation season is considerably more conservative than the 6-month requirement, since the fermentation season typically lasts only two to three months.

The term "successful operation" is not tightly defined. The District considers the following when determining whether a control technology has been successfully operated for achieved in practice BACT determinations:

1. Was the control technology operated in the same manner that would be required by the District if the control technology was required for BACT?
2. How reliable has the control technology been over the life of its use?
3. Has the control technology been verified to perform effectively over the range of operation expected for that type of equipment? Was the effectiveness verified by performance test(s), when possible, or using other performance data?

Other typical considerations that the District considers when making an achieved in practice BACT determination include:

1. Is the control technology commercially available from at least one vendor?
2. On what class and category of source has the control technology been demonstrated?

In summary, the following criteria are used for determining whether a control technology is achieved in practice for wine fermentation:

1. Did the plant using the control technology purchase/lease the equipment? Was that purchase/lease subsidized?
2. Was the control technology operated for at least one fermentation season?
3. Was the control technology operated in the same manner that would be required by the District for BACT purposes?
4. How reliable has the control technology been during its use at the plant?
5. Has the control technology been verified to perform effectively over the range of operation expected for that type of equipment? Was the effectiveness verified by performance test(s), when possible, or other performance data?
6. Is the control technology commercially available from at least one vendor?
7. On what class and category of source has the control technology been demonstrated?

Achieved in Practice Analysis for Known Installations of Wine Fermentation Control Technologies

The following is an analysis of each known installation of an emission control technology to control VOC emissions from wine fermentation tanks and whether that installation can be considered achieved in practice.

Terravant Wine Company (2008 – Current)

Terravant Wine Company submitted an Authority to Construct application for a wine processing facility to the Santa Barbara County Air Pollution Control District (SBCAPCD) on September 20, 2007. The application was deemed complete on October 19, 2007. The fermentation tanks triggered BACT; however, the SBCAPCD evaluation determined BACT to be infeasible. However, this project also triggered offsets and Terravant Wine Company electively proposed to install a packed bed water scrubber with UV/hydrogen peroxide controls to control VOC emissions from the wine fermentation tanks. Proposing the control would reduce VOC emissions to a level below the SBCAPCD offset threshold. The control technology is only required to run sufficiently to reduce emissions to stay below the offset threshold – it is not required to be operated all of the time, as is BACT-required equipment.

The packed bed water scrubber was installed in 2008 and began operation in 2008, with a 95% control efficiency requirement on the Authority to Construct permit. However, in 2008, the unit failed to meet the 95% control efficiency requirement. Prior to the 2009 season, Terravant Wine Company was issued a revised Authority to Construct permit that reduced the control efficiency requirement to 75%. However, the unit has not been able to consistently demonstrate compliance with the 75% control efficiency requirement. The effectiveness of the packed bed scrubber has varied considerably over its life, and has been measured to be as low as 49% control efficiency. During discussions, SBCAPCD staff indicated that this facility has been issued a Notice of Violation for non-compliance with their permitted emission limits and they would not recommend that any wineries use this control technology for the control of fermentation tank emissions, as it has proven to be unreliable. Finally, the control technology used by Terravant Winery is custom designed, and is not a commercially available off-the-shelf type of unit.

The packed bed scrubber technology does not meet the achieved in practice criteria since this control technology has not been operating in compliance with its permit requirements, its effectiveness is highly variable, and the control technology is not commercially available.

EcoPAS, LLC (2009)

EcoPAS conducted testing of their passive alcohol system, which is condensation-based emission control system, at a winery located within the San Luis Obispo County Air Pollution Control District. The purpose of this installation was to conduct full-scale testing of the passive alcohol system on red wine fermentation tanks. The District was unable to verify whether the winery purchased the system.

Since the District could not verify that the winery purchased the control system, this installation doesn't meet the first criteria listed to be considered as achieved in practice. Furthermore, the unit was operated for experimental testing of the control device. In the District's experience, during experimental testing/trial runs, a control technology does not typically operate in the same manner as would be required by BACT, so the District has not historically considered experimental test/trial installations to constitute achieved in practice BACT.

Central Coast Wine Services (2009)

In 2009, Santa Barbara County Air Pollution Control District (SBCAPCD) determined that Central Coast Wine Services (CCWS) was operating without a permit. They required CCWS to submit an application for an Authority to Construct such that the winery would be in compliance with SBCAPCD Rules and Regulations. Based on the emission estimates for the facility, the facility was triggering Best Available Control Technology Requirements and Offsets. At that time, the SBCAPCD determined that BACT, while technologically feasible, was not cost effective. SBCAPCD issued an Authority to Construct/Permit to Operate on June 5, 2009 for the winery.

CCWS was allowed to exceed the offset thresholds during the fall 2009 harvest season in order to test potential control technologies. Three companies were invited to participate in testing of prototype emission control equipment, but only NohBell Corporation elected to install and test fugitive ethanol control equipment.

NohBell Corporation engineered and tested a full scale NoMoVo 1.0 system on a 50 ton tank at the CCWS plant. NoMoVo documents describe the equipment as successful, with full scale trials proceeding. After the 2009 season, NoMoVo documents indicate that CCWS decided to move the plant and equipment.

This installation does not meet the requirements to be considered achieved in practice. First, the facility does not appear to have purchased/leased the control system, nor did they intend to continue operating the system. This is evident by their decision to discontinue use of the system in the following year. Second, no data has been submitted to the District to demonstrate that the unit was continuously operated in the same manner that the District would require the system to operate if it were considered achieved in practice BACT. The purpose of this installation was to perform initial testing and trial runs of the control technology. In the District's experience, during experimental testing/trial runs, a control technology does not typically operate in the same manner as would be required by BACT, so the District has not historically considered experimental test/trial installations to constitute achieved in practice BACT. Furthermore, the type of records necessary to demonstrate continuous operation of the system was not required by the SBCAPCD permit. Finally, the SBCAPCD permit did not include testing requirements to sufficiently demonstrate the effectiveness of the system.

Kendall Jackson Oakville (2010)

Kendall Jackson Winery belongs to Jackson Family Wines Inc (JFW), and is located in Oakville, California. This winery is in Bay Area Air Quality Management District (BAAQMD). BAAQMD does not require permits for wine fermentation or storage operations. Their Regulation 2, Rule 1, 117.9 and 117.10 has exemptions for wine storage and fermentation operations.

In 2010, NohBell installed a NoMoVo 2.0 system at the Kendall Jackson Winery. The system was connected to a 10,000 gallon fermentation tank and operated on a trial basis during the 2010 crush season. Pursuant to Brian Kosi, Winemaker at Kendall-Jackson Oakville, JFW never purchased the NoMoVo technology. The NoMoVo slurry was treated by the facilities on-site wastewater treatment system.

This installation does not meet the requirements of achieved in practice BACT. First, the system was never owned/leased by the winery. Secondly, the unit was operated for the purposes of testing/trial runs to evaluate the control technology. In the District's experience, during experimental testing/trial runs, a control technology does not typically operate in the same manner as would be required by BACT, so the District has not historically considered experimental test/trial installations to constitute achieved in practice BACT. Furthermore, BAAQMD does not have any record of source tests occurring during the 2010 crush season; therefore, the effectiveness for this installation was not established.

Kendall Jackson Oakville (2011-2013)

In its 2010 clean air plan, the BAAQMD included a further study measure (FSM 14 – Winery Fermentation) to examine whether ethanol emissions from Bay Area wine production could be cost-effectively reduced. On 9/26/11, the BAAQMD signed a Research Sponsorship Agreement (Contract No. 2011-126) with NohBell to help develop its technology to capture volatile organic compounds emitted by wine fermentation tanks at Kendall Jackson Oakville. The contract states that *"District (BAAQMD) wishes to support NohBell's effort to demonstrate the technology at JFW winery and wishes to verify the function and cost-effectiveness of the technology and acquire data to help DISTRICT (BAAQMD) determine whether the equipment could be cost effectively employed more widely in the wine industry".* NoMoVo submitted a project budget estimate of $118,750 for its NoMoVo 2.0 upgrades, pump upgrades, and related work at the plant. The BAAQMD contract promised $50,000 towards this effort, to be paid in installments directly to NohBell Corporation. Furthermore, Brian Kosi of Kendall-Jackson Oakville confirmed that the facility never purchased the NoMoVo system from NohBell and confirmed that the system has been removed from the site by NohBell.

For 2011, NohBell Corporation planned to conduct trials of the upgraded NoMoVo 2.0 system on 10 fermentation tanks. Six to eight trials were anticipated, operating on 4-6 day cycles. The trial runs were scheduled to be primarily conducted while fermenting red wines. The District was unable to obtain operational data for the 2012 and 2013 fermentation seasons for this equipment. Following the 2013 crush season, the equipment was removed and transferred to Constellation Wines in Monterey, CA.

This installation does not pass the first criteria of LAER, since the facility never owned the system and since the installation and operation of the control technology by NohBell was subsidized by a Research Sponsorship Agreement with BAAQMD. Furthermore, operation of the control technology at this facility was for trials/testing of the effectiveness of the control technology. In the District's experience, during experimental testing/trial runs, a control technology does not typically operate in the same manner as would be required by BACT, so the District has not historically considered experimental test/trial installations to constitute achieved in practice BACT. Finally, the unit was removed, which indicates that this wasn't intended as a permanent installation. For these reasons, the District does not consider this installation to be achieved in practice.

J. Lohr Vineyard and Winery (2013)

NohBell Corporation has indicated that they operated a NoMoVo system at J. Lohr Winery in Paso Robles during 2013 crush season. The District contacted J. Lohr Winery to obtain more information regarding this installation. J. Lohr Winery personnel stated that they considered this to be a pilot type testing operation. J. Lohr Winery did not purchase or lease the system. The unit operated during the 2013 crush season on fermentation tanks that were processing red wine. After the 2013 crush season, the system was removed and no longer operates at this site. San Luis Obispo Air Pollution Control District (SLOAPCD) had no knowledge that this unit was installed at this winery and no Authority to Construct or permit exemption was issued for this equipment.

This installation does not pass the first criteria of LAER, since the facility never purchased/leased the equipment. Furthermore, operation of the control technology at this facility was for trials/testing of the effectiveness of the control technology at this facility. In the District's experience, during experimental testing/trial runs, a control technology does not typically operate in the same manner as would be required by BACT, so the District has not historically considered experimental test/trial installations to constitute achieved in practice BACT. Finally, the unit was removed, which indicates that this wasn't intended as a permanent installation. For these reasons, the District does not consider this installation to be achieved in practice.

Constellation Winery dba Gonzales Winery (2013)

During the 2013 crush season, a NoMoVo unit was installed on a 39,000 gallon fermentation tank at Constellation Brands U.S. Operations, Inc. dba Gonzales Winery in Monterey, CA. The control technology was installed and operated as a "pilot operation". Monterey Bay Unified Air Pollution Control District (MBUAPCD) compliance staff noticed the NoMoVo unit operating on-site without authorization from MBUAPCD and issued a notice of violation. Gonzales Winery submitted an Authority to Construct application; however, prior to processing that application, the facility notified MBUAPCD that the equipment had been removed from the site. The equipment operated at the site for a partial season for pilot testing purposes. MBUAPCD could not verify whether Gonzales Winery purchased or leased the equipment.

The District was unable to verify whether Gonzales Winery purchased or leased the NoMoVo unit. Furthermore, operation of the control technology at this facility was for trials/testing of the effectiveness of the control technology at this facility. In the District's experience, during experimental testing/trial runs, a control technology does not typically operate in the same manner as would be required by BACT, so the District has not historically considered experimental test/trial installations to constitute achieved in practice BACT. Finally, the unit was removed, which indicates that this wasn't intended as a permanent installation. For these reasons, the District does not consider this installation to be achieved in practice.

Vinwood Cellars Kenwood (2013)

The District has found documents indicating that a NoMoVo system was installed on four 15,000 gallon fermentation tanks at Vinwood Cellars Kenwood in Sonoma county, and the system was operated during the 2013 season. District staff attempted to contact Vinwood Cellars; however, the staff at Vinwood Cellars was unable to verify information for this installation. BAAQMD had no knowledge of this installation, as they do not require permits for wine tanks, so they were unable to verify this installation. Furthermore, since this installation was not subject to permit requirements, BAAQMD has no operational history or test data for this site. While BAAQMD administered source tests at Kendall Jackson Oakville winery, they have no records of any source testing of the NoMoVo system at Vinwood Cellars Kenwood.

This installation has not met the requirements of achieved in practice. First, it has yet to be confirmed that the winery actually purchased the NoMoVo system. Second, BAAQMD has no test records to verify the effectiveness of the NoMoVo system at this site. Finally, the operational history of the unit at this site is not available to determine whether it was operated in the same manner as a unit would be if it were installed as BACT.

Central Coast Wine Services (2013)

On August 5, 2013, CCWS electively applied to install a NoMoVo wine emission capture and control system to control ethanol emissions from fermentation activities at their wine center. The existing fermentation tanks at the facility ranged in capacity from 350 gallons to 20,887 gallons. On September 23, 2013, a final ATC (ATC 14257) was issued for the installation of the NoMoVo system, and the unit began operation in September 27, 2013. The installation of this unit allowed CCWS to increase daily wine fermentation while remaining under their existing daily and annual facility-wide VOC emission limits. A Permit to Operate (PTO 14257) was issued on December 13, 2013.

PTO 14257 states: "*The NoMoVo system is optional and may be used at CCWS' discretion".* Thus, the permit does not require continuous operation of the NoMoVo system. The NoMoVo system is portable. The system can be attached to four or five fermentation tanks at a time via flexible hoses. The facility is allowed to move the NoMoVo system around, as desired, to capture emissions from the tanks where fermentation is taking place. However, there is no requirement to keep the NoMoVo system attached to a tank and operate it for the full fermentation cycle of that tank. Thus, the District was unable to confirm that the unit was operated in the continuous manner that would be required if the District considered NoMoVo to be achieved in practice BACT.

SBCAPCD PTO 14257 does not include a control efficiency requirement, does not include any source testing requirements to verify the control effectiveness of the control system. The effectiveness of the control has only been estimated using the density change of the NoMoVo slurry to estimate the quantity of ethanol capture, and using a theoretical calculation of the quantity of ethanol that would be emitted if the tanks were uncontrolled. Inlet and outlet air quality testing has not been performed for this particular installation.

Finally, the disposal of the NoMoVo slurry is an important consideration when determining the effectiveness of the control system. If the slurry is disposed of in a manner that re-emits the ethanol into the atmosphere, then the effectiveness of the control is diminished. Until August 2014, the CCWS facility disposed of the NoMoVo slurry in their on-site wastewater treatment facility. On August 21, 2014, SBCAPCD sent a letter to CCWS informing them that they have concerns over the treatment of the NoMoVo slurry. Specifically, SBAPCD was concerned about the potential for stripping of ethanol to the atmosphere during the on-site waste water treatment process. The SBCAPCD letter states "*In conclusion, after August 29, 2014, the District will not recognize emission reductions claimed based on the use of any of your NoMoVo systems (existing or new) at the facility until CCWS has a District-approved on-site or off-site ethanol disposal method in place*". On August 27th, 2014, SBCAPCD approved the disposal of the NoMoVo slurry at Southern California Waste Water, an off-site facility in Santa Paula, California. In November, 2014, a vacuum truck carrying toxic chemicals from an unrelated facility exploded spreading about 1200 gallons of chemical waste including sulfuric acid and highly combustible organic peroxide. Since that incident, Southern California Waste Water has discontinued the acceptance of waste from all of their clients, so this disposal option is no longer available for the waste generated by CCWS.

The waste is now shipped to a distillery, which distills the ethanol and converts it into vehicle fuel. SBCAPCD has yet to approve the disposal of the NoMoVo slurry to the on-site wastewater facility. Consequently, the overall effectiveness of the system, including any ethanol re-emitted into the atmosphere during disposal, has yet to be sufficiently determined.

Since the control technology has not been demonstrated to operate in a manner that would be required by BACT and the overall effectiveness of the control technology has yet to be sufficiently determined, the District does not consider this installation to be achieved in practice.

Central Coast Wine Services (2014/2015)

In 2014, CCWS submitted an Authority to Construct application for the installation of 40 new tanks, ranging in capacity from 7,407 gallons to 20,628 gallons. The proposal triggered BACT. CCWS decided to forego the normal BACT Analysis, and electively proposed to install six NoMoVo systems to control VOC emissions from the tanks, when the tanks were fermenting wine. A final ATC, (ATC 14350) was issued on July 28, 2014 and the tanks were installed for the 2014 season.

Unlike the previous installations of NoMoVo at this facility, the ATC requires use of the NoMoVo system on these tanks while fermentation is taking place, the permit requires a minimum capture and control efficiency, and the permit requires source testing to verify the effectiveness of the NoMoVo system. However, these tanks have yet to be used for fermentation and the effectiveness has yet to be determined for this installation of the NoMoVo system. An email from Richard Mather of CCWS to David Harris of SBCAPCD, dated September 16, 2014, states:

> *We won't be using the new tanks for fermentation this year, but since our ATC permit only gives us until August 1, 2015 to fulfill the source test plan, we will need to conduct the test this fall before our last fermentation. It would be highly unlikely that we would be conducting fermentation next year before August 1. Since harvest is progressing rapidly, we probably only have several weeks of fermentation left this year.*

Prior to the 2015 season, CCWS received another Authority to Construct for the 40 new tanks that allowed the use of either NoMoVo or EcoPAS control systems. The new Authority to Construct continued to require inlet/outlet testing of the control system. However, that Authority to Construct was later cancelled due to both technology vendors objecting to perform the required source tests to demonstrate the control efficiency of their respective systems. Rather, CCWS was issued a new ATC allowing only 10 of the 40 tanks to be used for fermentation, and limiting

fermentation to white wine only. With those changes to the permits, BACT was no longer triggered and the requirement to demonstrate the actual control efficiency was removed from the permits. Additionally, the use of the NoMoVo or EcoPAS control systems was no longer required; rather, the permit allowed for optional use on the 10 tanks that are allowed to ferment white wine.

The refusal of the control vendors to demonstrate the actual control efficiency raises significant questions and concerns over the vendors' control efficiency claims. The Valley Air District cannot, in good faith, require controls which the vendors refuse to validate. The District's concern is that, if the vendors of this technology are aware that claims of the control efficiency are potentially overstated, but they also know that EPA is about to require their technology to be installed on a widespread basis, they gain no advantage by demonstrating their actual control efficiency. Since the effectiveness was yet again not demonstrated in 2015, and for the reasons stated in the 2013 evaluation of the use of controls at CCWS, the criteria of Achieved in Practice have yet to be satisfied for these installations.

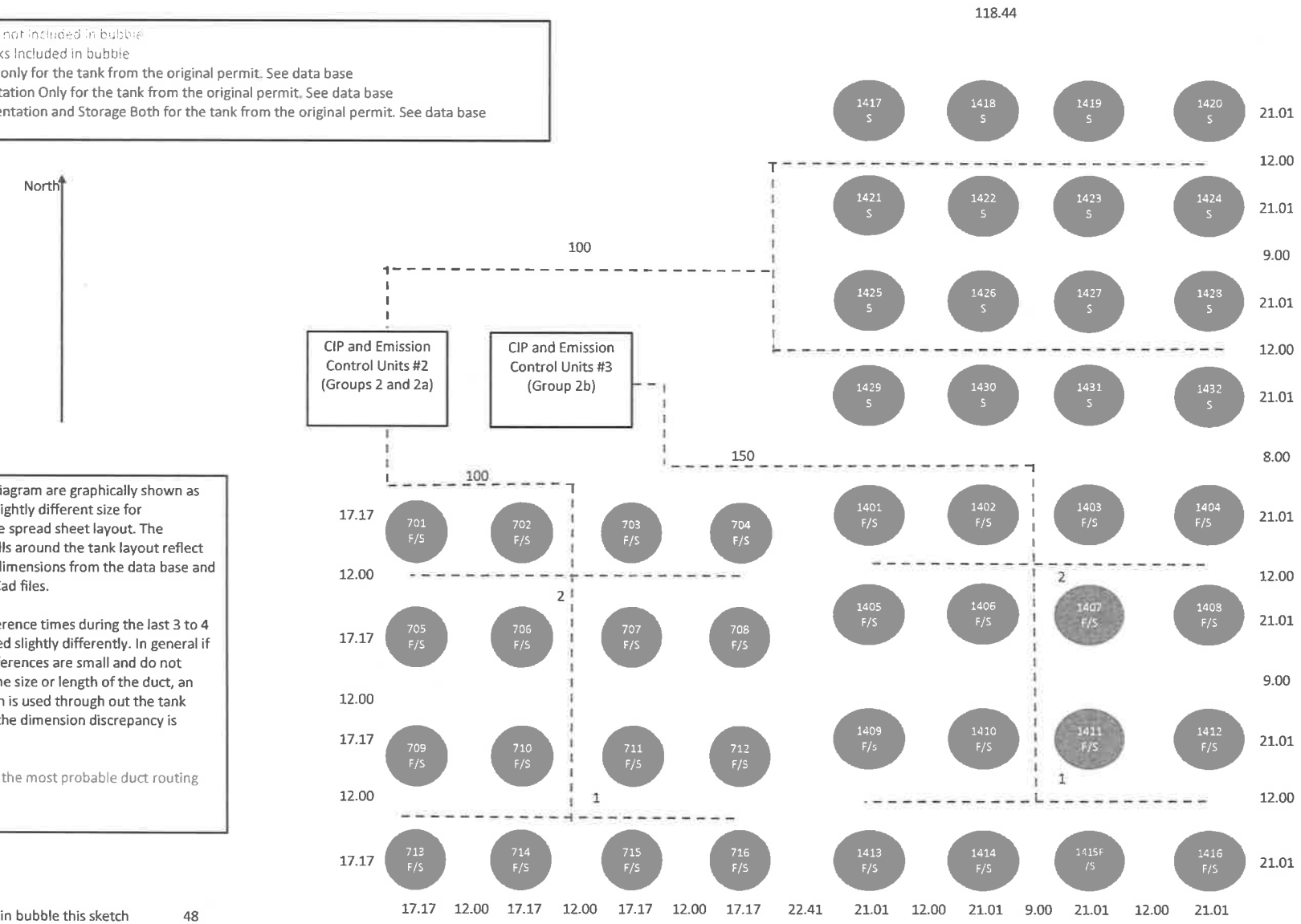
Conclusion

For the reasons listed in the above discussions of each control installation, none of the installations have met all of the criteria necessary for the control technology to be considered as achieved in practice BACT or federal LAER.

Attachment F2

Ducting Layout Diagrams and Ducting Cost Estimates

Blue tanks not included in bubble
Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base



The tanks in this diagram are graphically shown as the same size or slightly different size for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

Total tanks in bubble this sketch 48

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #2 105K Tanks Storage Only	N/A	N/A	N/A	46.51	40	48.58	0	1.93	6.00		16	744	$46.63	$34,695.00	Reduced to 3 inch size due to low gas flow
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50.0 percent of the tanks are pumping		Main Duct Total Length	336.88	0.00	40	388.67	0	3.63	6.00	16		337	$62.17	$20,944.08	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drums (7000 gallons) for foam overs on fermenters	$0	Eichleay
Ducting Isolation Components for all tanks without redundant main (X2)	$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$50,000	Allowance
Ducting Cost	$97,639	
Support Allowance	$50,000	
Total	**$147,639**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #2a 70K Tanks Fermentation	N/A	N/A	N/A	36.00	40	0.00	358	5.23	6.00		16	576	$62.17	$35,810.34	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	716/712	715/711	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	715/711	Duct Joint 1	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	709/713	710/714	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	710/714	Duct Joint 1	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	Duct Joint 1	Duct Joint 2	58.34	0.00	40	0.00	2,867	14.80	16.00	8		58	$204.52	$11,931.75	
	704/708	703/707	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	703/707	Duct Joint 2	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	701/705	702/706	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	702/706	Duct Joint 2	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	Duct Joint 2	Emission Controls	100.00	0.00	40	0.00	5,734	20.93	22.00	16		100	$306.44	$30,644.00	
													Sum	$98,824.38	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drums (7000 gallons) for foam overs on fermenters	$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main	$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$60,000	Allowance
Ducting Cost	$187,124	
Support Allowance	$60,000	
Total	**$247,124**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #2b 105 Tanks Fermentation	N/A	N/A	N/A	30.00	40	0.00	538	6.41	8.00		16	480	$103.25	$49,560.98	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	1416/1412	1415/1411	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1415/1411	Duct Joint 1	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	1409/1413	1410/1414	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1410/1414	Duct Joint 1	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	Duct Joint 1	Duct Joint 2	63.02	0.00	40	0.00	4,301	18.13	20.00	8		63	$309.38	$19,496.81	
	1404/1408	1403/1407	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1403/1407	Duct Joint 2	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	1401/1405	1402/1406	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1402/1406	Duct Joint 2	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	Duct Joint 2	Emission Controls	150.00	0.00	40	0.00	8,602	25.63	26.00	16		150	$397.67	$59,650.00	
													Sum	$158,219.47	

Redundant Main Duct for CIP on Fermenters Only		$0	
1 Knock drums (7000 gallons) for foam overs on fermenters		$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main		$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.		$80,000	Allowance
	Ducting Cost	$246,519	
	Support Allowance	$80,000	
	Total	$326,519	
	Grand Sum Total	**$721,283**	

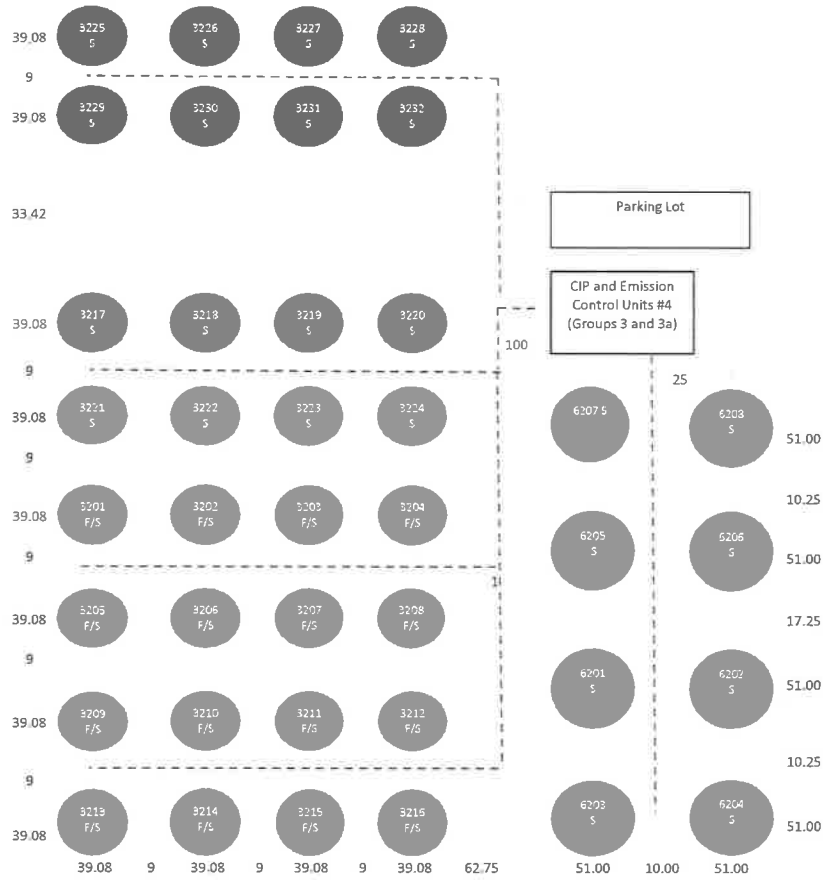
Blue tanks not included in bubble
Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base

The tanks in this diagram are graphically shown as two sizes for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

Total tanks in bubble this sketch 40



Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #3 350K Tanks Storage Only	N/A	N/A	N/A	54.04	40	48.54	0	1.93	6.00		16	865	$46.63	$40,316.48	Reduced to 3 inch size due to low gas flow
Group #3 650K Tanks Storage Only	N/A	N/A	N/A	61.50	40	48.53	0	1.93	6.00		8	492	$62.17	$30,588.00	
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50 percent of the tanks are pumping 350K tanks		Main Duct Total Length	513.73	0.00	40	388.28	0	5.45	8.00	16		514	$103.25	$53,043.15	
Assume 50 percent of the tanks are pumping 650K tanks		Main Duct Total Length	241.25	0.00	40	194.14	0	3.85	6.00	8		241	$62.17	$14,998.69	
													Redundant Main Duct for CIP on Fermenters Only		$0	
													1 Knock drums (7000 gallons) for foam overs on fermenters		$0	Eichleay
													Ducting Isolation Components for all tanks without redundant main (X2)		$63,000	Previous Work
													The main process pipe ways will need some modification to support the emission ducting systems.		$25,000	Allowance
														Ducting Cost	$201,946	
														Support Allowance	$25,000	
														Total	**$226,946**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #3a 350K Tanks Fermentation	N/A	N/A	N/A	54.04	40	0.00	1,792	11.70	12.00		16	865	$143.83	$124,358.29	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	3209/3213	3210/3214	48.08	0.00	40	0.00	3,584	16.55	18.00	2		48	$251.38	$12,086.24	
	3210/3214	3211/3215	48.08	0.00	40	0.00	7,168	23.40	24.00	4		48	$397.67	$19,119.81	
	3211/3215	3212/3216	48.08	0.00	40	0.00	10,752	28.66	30.00	6		48	$476.73	$22,921.18	
	3212/3216	Duct Joint 1	190.66	0.00	40	0.00	14,336	33.09	34.00	8		191	$476.73	$90,890.96	
	3201/3205	3202/3206	48.08	0.00	40	0.00	3,584	16.55	18.00	2		48	$251.38	$12,086.24	
	3202/3206	3203/3207	48.08	0.00	40	0.00	7,168	23.40	24.00	4		48	$397.67	$19,119.81	
	3203/3207	3204/3208	48.08	0.00	40	0.00	10,752	28.66	30.00	6		48	$476.73	$22,921.18	
	3204/3208	Duct Joint 1	50.92	0.00	40	0.00	14,336	33.09	34.00	8		51	$476.73	$24,272.71	
	Duct Joint 1	Emission Controls	196.16	0.00	40	0.00	28,672	46.80	48.00	16		196	$548.46	$107,585.02	
														Sum	$455,361.44	
													Redundant Main Duct for CIP on Fermenters Only		$0	
													1 Knock drum (7000 gallons) for foam overs on fermenters		$46,300	Eichleay
													Ducting Isolation Components for all tanks with redundant main		$42,000	Previous Work
													The main process pipe ways will need some modification to support the emission ducting systems.		$60,000	Allowance
														Ducting Cost	$543,661	
														Support Allowance	$60,000	
														Total	**$603,661**	
														Grand Sum Total	**$830,608**	

Blue tanks not included in bubble
Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base.

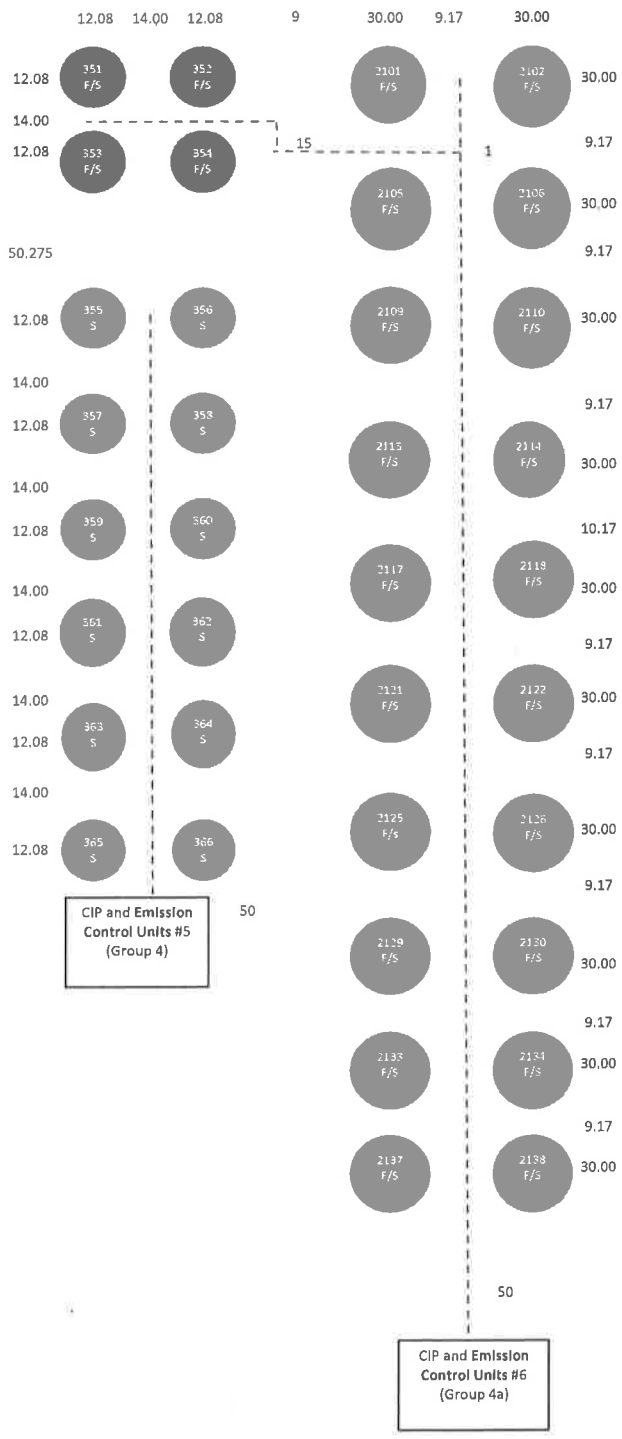
The tanks in this diagram are graphically shown as two sizes for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

North

Total tanks in bubble this sketch 36



Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #4 35K Tanks Storage Only	N/A	N/A	N/A	43.04	40	48.52	0	1.93	6.00		20	861	$46.63	$40,137.42	Reduced to 3 inch size due to low gas flow.
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50 percent of the tanks are pumping 35K tanks		Main Duct Total Length	0.00	130.40	40	291.13	0	4.72	6.00		130		$62.17	$8,107.06	Use 6 inch main
													Redundant Main Duct for CIP on Fermenters Only		$0	
													1 Knock drums (7000 gallons) for foam overs on fermenters		$0	Eichleay
													Ducting Isolation Components for all tanks without redundant main (X2)		$52,500	Previous Work
													The main process pipe ways will need some modification to support the emission ducting systems.		$50,000	Allowance
														Ducting Cost	$100,744	
														Support Allowance	$25,000	
														Total	**$125,744**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #4a 35K Tanks Fermentation	N/A	N/A	N/A	43.04	40	0.00	179	3.70	6.00		4	172	$62.17	$10,703.31	
Group #4a 215K Tanks Fermentation	N/A	N/A	N/A	49.59	40	0.00	1,101	9.17	10.00		16	793	$144.33	$114,508.29	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	351/353	352/354	26.08	0.00	40	0.00	358	5.23	6.00	2		26	$46.63	$1,216.06	
	352/354	Junction 1	55.63	0.00	40	0.00	717	7.40	8.00	4		56	$103.25	$5,743.39	
	2101/2102	Junction 1	19.59	0.00	40	0.00	2,918	14.93	16.00	2		20	$204.52	$4,005.54	
	Junction 1	2105/2106	15.00	0.00	40	0.00	5,120	19.78	20.00	4		15	$309.38	$4,640.63	
	2105/2106	2109/2110	39.17	0.00	40	0.00	7,322	23.65	24.00	6		39	$397.67	$15,576.60	
	2109/2110	2113/2114	39.17	0.00	40	0.00	9,523	26.97	28.00	8		39	$476.73	$18,673.64	
	2113/2114	2117/2118	40.17	0.00	40	0.00	11,725	29.93	30.00	10		40	$476.73	$19,150.24	
	2117/2118	2221/2122	39.17	0.00	40	0.00	13,926	32.62	34.00	12		39	$476.73	$18,673.51	
	2121/2122	2125/2126	39.17	0.00	40	0.00	16,128	35.10	36.00	14		39	$548.46	$21,483.18	
	2125/2126	2129/2130	39.17	0.00	40	0.00	18,330	37.42	38.00	16		39	$548.46	$21,483.18	
	2129/2130	Emission controls	65.00	0.00	40	0.00	18,330	37.42	38.00	16		65	$548.46	$35,649.90	
														$291,507.49	
													Redundant Main Duct for CIP on Fermenters Only		$0	
													1 Knock drum (7000 gallons) for foam overs on fermenters		$46,300	Eichleay
													Ducting Isolation Components for all tanks with redundant main		$52,500	Previous Work
													The main process pipe ways will need some modification to support the emission ducting systems.		$60,000	Allowance
														Ducting Cost	$390,307	
														Support Allowance	$60,000	
														Total	**$450,307**	
														Grand Sum Total	**$576,052**	

Green tanks included in bubble

S=Storage only for the tank from the original permit. See data base

F=Fermentation Only for the tank from the original permit. See data base

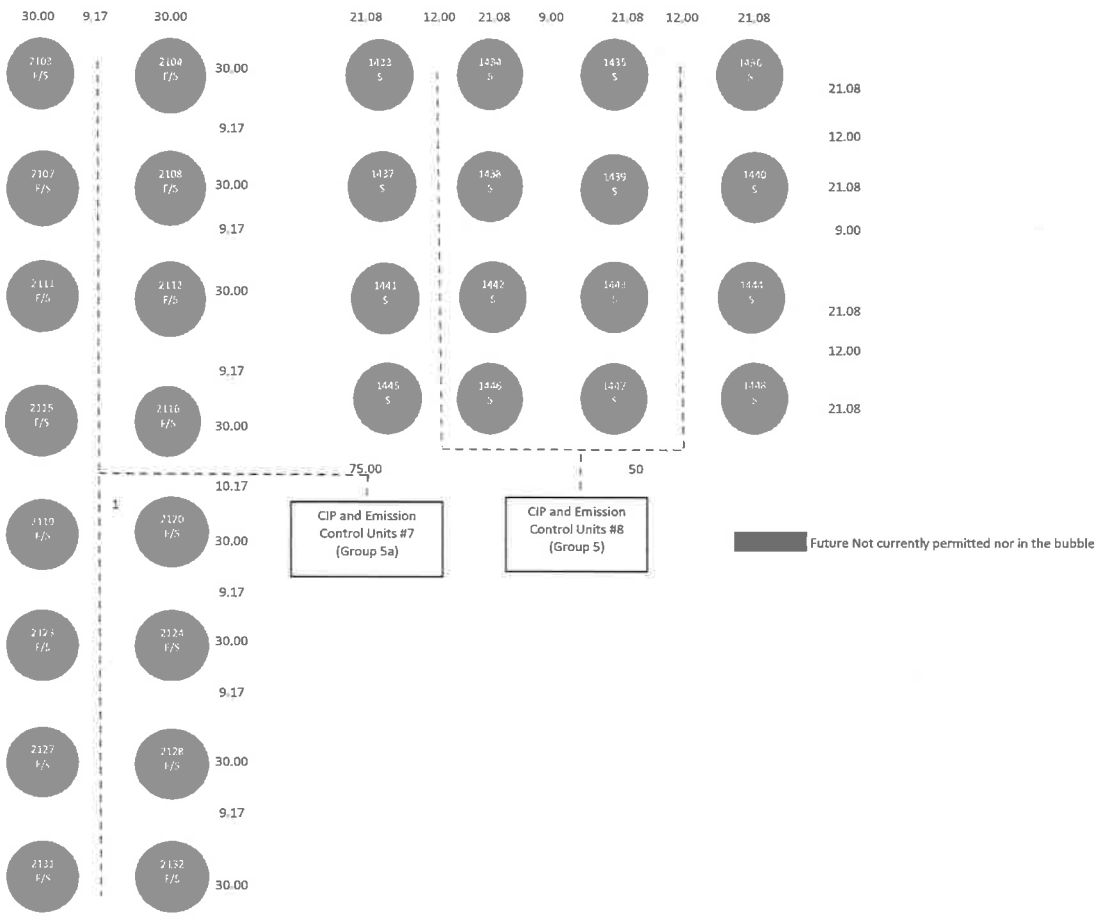
F/S=Fermentation and Storage Both for the tank from the original permit. See data base.

The tanks in this diagram are graphically shown as two sizes for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

North



Total tanks in bubble this sketch 28

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #5 105K Tanks Storage Only	N/A	N/A	N/A	46.54	40	48.52	0	1.93	6.00		12	558	$46.63	$26,040.83	Reduced to 3 inch size due to low gas flow
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50 percent of the tanks are pumping 105K Tanks		Main Duct Total Length	0.00	322.22	40	291.13	0	4.72	6.00		322		$62.17	$20,032.65	
												Redundant Main Duct for CIP on Fermenters Only		$0	
												1 Knock drums (7000 gallons) for foam overs on fermenters		$0	Eichleay
												Ducting Isolation Components for all tanks without redundant main (X2)		$31,500	Previous Work
												The main process pipe ways will need some modification to support the emission ducting systems.		$25,000	Allowance
													Ducting Cost	$77,573	
													Support Allowance	$25,000	
													Total	**$102,573**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #5a 215K Tanks Fermentation	N/A	N/A	N/A	49.59	40	0.00	1,101	9.17	10.00		16	793	$108.25	$85,881.22	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	2103/2104	2107/2108	39.17	0.00	40	0.00	2,202	12.97	14.00	2		39	$174.17	$6,822.39	
	2107/2108	2111/2112	39.17	0.00	40	0.00	4,403	18.34	20.00	4		39	$309.38	$12,118.22	
	2111/2112	2115/2116	39.17	0.00	40	0.00	6,605	22.46	24.00	6		39	$397.67	$15,576.60	
	2115/2116	Junction 1	20.09	0.00	40	0.00	8,806	25.94	26.00	8		20	$397.67	$7,987.14	
	2131/2132	2127/2128	39.17	0.00	40	0.00	2,202	12.97	14.00	2		39	$174.17	$6,822.39	
	2127/2128	2123/2124	39.17	0.00	40	0.00	4,403	18.34	20.00	4		39	$309.38	$12,118.22	
	2123/2124	2119/2120	39.17	0.00	40	0.00	6,605	22.46	24.00	6		39	$397.67	$15,576.60	
	2119/2120	Junction 1	20.09	0.00	40	0.00	8,806	25.94	26.00	8		20	$397.67	$7,987.14	
	Junction 1	Emission Controls	75.00	0.00	40	0.00	17,613	36.68	38.00	16		75	$548.46	$41,134.50	
														$126,143.19	
												Redundant Main Duct for CIP on Fermenters Only		$0	
												1 Knock drum (7000 gallons) for foam overs on fermenters		$46,300	Eichleay
												Ducting Isolation Components for all tanks with redundant main		$42,000	Previous Work
												The main process pipe ways will need some modification to support the emission ducting systems.		$60,000	Allowance
													Ducting Cost	$214,443	
													Support Allowance	$60,000	
													Total	**$274,443**	

Grand Sum Total **$377,017**

Attachment F3

Comparison of Stainless Steel Ducting Costs

Ducting/Piping Cost Comparison

Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"
Eichleay - Ducting/Piping Only $/Foot	--	--	--	$23.17	$38.59	$54.00	$62.00	$65.50	$69.00	$86.00	$92.00	$99.00	$106.00	$119.00
Eichleay - Ducting/Piping Only $/Foot Including 21.93% for Inflation	--	--	--	$28.25	$47.05	$65.84	$75.60	$79.86	$84.13	$104.86	$112.18	$120.71	$129.25	$145.10
Average $/Foot from District Cost Survey	$15.49	$30.85	$27.67	$44.13	$37.50	$33.13	$93.75	$181.70	$216.50	$189.02	$308.40	--	$193.99	--
Average $/Foot from District Cost Survey from Suppliers of Both 3" and 6"	--	$30.85	--	$57.26	--	--	--	--	--	--	--	--	--	--

Ducting/Piping Costs based on Eichleay Report

Note: Minimum of 6" Diameter for Structural Support														
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"
Ducting/Piping Only $/Foot	--	--	--	$23.17	$38.59	$54.00	$62.00	$65.50	$69.00	$86.00	$92.00	$99.00	$106.00	$119.00
Ducting + Fittings, Bolt Up, Handling, & Install $/Foot	--	--	--	$62.17	$103.25	$144.33	$143.83	$174.17	$204.52	$251.38	$309.38	$306.44	$397.67	$476.73
Ducting + Fittings, Bolt Up, Handling, & Install $/Foot	--	--	--	$62.17	$103.25	$144.33	$143.83	$174.17	$204.52	$251.38	$309.38	$306.44	$397.67	$476.73

Supplier: Grainger (http://www.grainger.com) **Location: Fresno, CA and Ceres, CA**

Schedule 10													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	$229.50	$387.75	$587.50	--	--	--	--		--	--	--	--	--
Length (feet)	10	10	10	--	--	--	--		--	--	--	--	--
Price/Foot ($)	$22.95	$38.78	$58.75	--	--	--	--		--	--	--	--	--

Supplier: Stockton Pipe and & Supply Inc (http://www.stocktonpipe.net) **Location: Stockton, CA**

Note: Sizes over 12" Diameter need to be ordered from Mill													
0.109" thickness tube or Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	--	--	--	--	--	$700.00	$840.00	--	--	--	--	--	$3,159.60
Length (feet)	--	--	--	--	--	20	20	--	--	--	--	--	20
Price/Foot ($)	--	--	--	--	--	$35.00	$42.00	--	--	--	--	--	$157.98

Supplier: Valley Iron Inc (http://www.stocktonpipe.net) **Location: Fresno, CA**

Note: Sch 10 T-304 20"													
Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Length (feet)	--	--	20	20	20	20	--	--	--	--	--	--	--
Price/Foot ($)	--	--	$10.75	$16.90	$26.00	$33.90	--	--	--	--	--	--	--

Supplier: Del Paso Pipe & Steel Inc. (http://www.delpasopipeandsteel.com/) **Location: Sacramento, CA**

Schedule 5/10 Pipe:													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price Quote: $9/lb												--	
Estimated Price/Foot	--	--	--	--	--	--	$217.00	$250.00	$286.00	$322.00	$432.00	--	--
												--	

Supplier: Hayward Pipe & Supply Co. Inc (http://www.haywardpipe.com/) **Location: Hayward, CA**

Note: large diamter pipe ships from Texas. FREIGHT NOT QUOTED - Additional Shipping Costs apply													
Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	--	--	--	--	--	--	$1,540.00	$2,268.00	$2,940.00	$3,276.00	$3,696.00	--	--
Length (feet)	--	--	--	--	--	--	20	20	20	20	20	--	--
Price/Foot ($)	--	--	--	--	--	--	$77.00	$113.40	$147.00	$163.80	$184.80	--	--

Supplier: OnlineMetals.com (http://www.onlinemetals.com/) **Location: Nearest Warehouse - Los Angeles, CA**

Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	$78.28	$108.97	$160.34	$288.00	$520.00	--	--	--	--	--	--	--	--
Length (feet)	8	8	8	8	8	--	--	--	--	--	--	--	--
Price/Foot ($)	$9.79	$13.62	$20.04	$36.00	$65.00	--	--	--	--	--	--	--	--
Weldeds Stainless Tube 304/304L (2" OD, 0.12" Wall; 3" OD, 0.12" Wall; 6", 0.12")													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	$109.86	$321.34	--	$628.16	--	--	--	--	--	--	--	--	--
Length (feet)	8	8	--	8	--	--	--	--	--	--	--	--	--
Price/Foot ($)	$13.73	$40.17	--	$78.52	--	--	--	--	--	--	--	--	--

Supplier: Lone Star Supply Co **Location: Dickinson, TX**

Note: Additional shipping costs													
Schedule 10 Welded Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price/Foot ($)	--	--	$16.45	$19.60	$21.50	$30.50	$39.00	--	--	$81.25	--	--	$230.00
												--	

Supplier: Global Technology and Engineering **Location: Excelsior Springs, MO**

Note: Additional shipping Costs													
11 Gauge Tubing													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	--	--	$226.58	$487.40	--	--	--	--	--	--	--	--	--
Length (feet)	--	--	7	7	--	--	--	--	--	--	--	--	--
Price/Foot ($)	--	--	$32.37	$69.63	--	--	--	--	--	--	--	--	--

Appendix G

BACT Guideline 5.4.13 Top Down VOC BACT Analysis for Wine Storage Tanks

Top Down BACT Analysis for VOCs from Wine Storage Operations

Step 1 - Identify All Possible Control Technologies

SJVUAPCD BACT Clearinghouse guideline 5.4.13 identifies achieved in practice BACT for wine storage tanks as follows:

1) Insulation or Equivalent**, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation.

SJVUAPCD BACT Clearinghouse guideline 5.4.13 identifies technologically feasible BACT for wine storage tanks as follows:

2) Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control)
3) Capture of VOCs and carbon adsorption or equivalent (95% control)
4) Capture of VOCs and absorption or equivalent (90% control)
5) Capture of VOCs and condensation or equivalent (70% control)

***Tanks made of heat-conducting materials such as stainless steel may be insulated or stored indoors (in a completely enclosed building, except for vents, doors and other essential openings) to limit exposure to diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete and wood (except for fittings) are considered self-insulating.*

SJVUAPCD BACT Clearinghouse guideline 5.4.13 does not identify any alternate basic equipment control alternatives.

Step 2 - Eliminate Technologically Infeasible Options

None of the above listed technologies are technologically infeasible.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Rank by Control Effectiveness		
Rank	Control	Overall Capture and Control Efficiency
1	Capture of VOCs and thermal oxidation or equivalent	98%*
2	Capture of VOCs and carbon adsorption or equivalent	95%
3	Capture of VOCs and absorption (scrubber) or equivalent	90%
4	Capture of VOCs and condensation or equivalent	70%
5	Insulation or Equivalent, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation	Baseline (Achieved-in-Practice)

* Following recent District practice, thermal and catalytic oxidation will be ranked together.

Step 4 - Cost Effectiveness Analysis

A cost effective analysis must be performed for all control options that have not been determined to be achieved in practice in the list from Step 3 above, in the order of their ranking, to determine the cost effective option with the lowest emissions.

District BACT Policy APR 1305 establishes annual cost thresholds for imposed control based upon the amount of pollutants reduced by the controls. If the cost of control is at or below the threshold, it is considered a cost effective control. If the cost exceeds the threshold, it is not cost effective and the control is not required. Per District BACT Policy, the maximum cost limit for VOC reduction is $17,500 per ton of VOC emissions reduced.

BACT Analysis Assumptions – All Control Options

- It is expected that if control systems were required to be installed on a wine storage *and* fermentation tank, that a winery would install a system capable of controlling the worst case (highest) emissions which are fermentation emissions. Therefore the ductwork, clean-in-place systems and all control systems would need to be adequately sized to control the fermentation emissions. As such, the size, cost and number of control devices necessary to control storage emissions will be the same as was determined in the fermentation top down BACT analysis in Appendix F.
- As stated above, all the cost from the fermentation analysis in Appendix F apply to this top down BACT analysis except for the annual labor, utility and maintenance costs. Fermentation is expected to only operate for 90 days out of the year whereas storage operations can occur all year round; therefore, the annual labor and maintenance will be recalculated in this Appendix accordingly.
- In determining the labor costs for the cost analyses, two shifts are assumed to be appropriate for a control system serving wine storage tanks.
- Sales Tax: This facility is located in Livingston, CA, which has a current sales tax rate of 7.5%. However, pollution control equipment qualifies for a partial tax exemption in California. According to the following link, the tax exemption rate is 4.1875%, http://www.boe.ca.gov/sutax/manufacturing_exemptions.htm#Purchasers . Therefore, the sales tax rate used in this analysis will be set equal to 3.31% (7.5% - 4.1875%).
- Due to the unsteady state operation of wine storage tanks, initial source testing is expected to be a significant technical operation with significant expense, conducted over the filling cycle of a tank rather than the typical three 30-minute steady state measurements. An additional cost of $15,000 per control unit will be assumed for initial source testing.
- Annual source testing will also be required. It is assumed that only one representative control unit will require testing each year. An annual charge of $15,000 will be included.
- Project Contingency: For detailed estimates, the Association for the Advancement of Cost Engineering International recommends a contingency factor of 15%, while the Electric Power Research Institute recommends a contingency of 10% to 20% (ftp://ftp.repec.org/opt/ReDIF/RePEc/sip/04-005.pdf). Therefore, a cost contingency of 15% will be applied to the detailed estimates provided in these cost analyses. Additionally, since both the direct and indirect costs are detailed estimates and both of these categories of costs have uncertainty associated with them, the contingency will be applied to both the direct and indirect costs.

- Owner's Cost is the costs to cover the project management, internal engineering and operations planning required to implement a significant new process technology of this scale in a commercial winery. No Owner's Cost was specifically requested by the facility, therefore, as a conservative estimate, the Owner's Cost will be set equal to $0 for the purposes of this BACT analysis.
- In order to capture fermentation emissions from wine fermentation tanks, it is necessary to enclose the tanks and duct the captured vapors to the control device. An increase in back pressure can result from enclosing the control device and adding the duct work and control system. Increases in back pressure to the tanks causes additional CO_2 absorption into the wine, resulting in the possibility of an effervescent reaction and a foam over event. To proactively prevent catastrophic events like foam overs, it is necessary to monitor back pressure and temperature of the tanks and take immediate action if the back pressure rises to critical levels that suggest a foam over is about to occur. The cost of the equipment to monitor the pressure and temperature are included in the Programming Controller Logic (PCL) cost. In District Project C-1133347, a PCL cost of $10,000 per control system was provided to the District. This cost will be used to estimate PCL costs for the currently proposed project.

Maximum Vapor Flow Rates

Maximum Vapor Flow Rate – Tanks in Fermentation and Storage Service

The vapor flow rates from the tanks in fermentation and storage service were previously established in Appendix D above and are summarized in the following table.

Tank Group	Nominal Tank Capacities (gallons)	Max CO_2 Flowrate for Entire Tank Group (scfm)	Max CO_2 + Fresh Air Flowrate for Entire Tank Group (scfm)
2a	70,000	8,803	12,573
2b	105,000	5,868	8,381
3	350,000	29,864	41,690
4	35,000	18,782	25,146
4	215,000		
5	215,000	18,043	25,102
Total		81,360	112,892

Maximum Vapor Flow Rate – Tanks in Storage Service Only

The vapor flow rates from the tanks in storage service only are considerably lower than that of winery fermentation tanks. Vapor flow rates from the tanks that are only in wine storage service were not included as a part of the cost information provided for this project. The vapor flow rates from these wine storage tanks will be determined using the following tools:

Average Pumping Wine Flowrate = 333 gpm (taken from similar project for Woodbridge Winery, N-1140986)

Using this average wine pumping flowrate and the flowrate calculator provided by E & J Gallo Winery as a part of this project (see Attachment G2), the maximum CO_2 production rate for each storage tank group is summarized as follows:

Tank IDs	Permits	Tank Group	Nominal Tank Capacities (gallons)	Max CO_2 Flowrate per Tank (scfm)	Max CO_2 Flowrate for Entire Tank Group (scfm)
311 through 334	N-1237-490 through '-497, '-662 through '-669, and '-717 through -724	1	35,000	49	1,176
1417 through 1432	N-1237-617 through '-632	2	105,000	49	784
3217 through 3232	N-1237-701 through '-708 and '-768 through '-774	3	350,000	48	1,176
6201 through 6208	N-1237-709 through '-716	3	650,000	48	
355 through 366	N-1237-609 through '-616 and '-697 through '-700	4	35,000	49	588
1433 through 1442, 1445 and 1446	N-1237-633, through '-644	5	105,000	49	588
Total					4,312

Uncontrolled Storage Emissions

E & J Gallo Winery is proposing to establish a combined VOC emission limit for all fermentation and storage operations of the 178 winery tanks being modified within this project. Other than the combined VOC emission limit from these tanks, there will be no specific condition limiting the amount of wine storage that can take place in these 178 storage tanks. Therefore, for the purposes of this cost effectiveness analysis, uncontrolled storage VOC emissions will be set equal to the total VOC emissions allowed under the new combined limit.

Uncontrolled Storage PE= 191,260 lb-VOC/year

Collection System Capital Investment (based on ductwork and clean-in-place system)

A common feature of all thermal oxidation/carbon adsorption/absorption or condensation options is that they require installation of a collection system for delivering the VOCs from the tanks to the common control device(s).

Basis of Cost Information:

- The costs for the ductwork and the required clean-in-place (CIP) system are based on information from the 2005 Eichleay Study. The 2005 Eichleay study was used in development of District Rule 4694 Wine Fermentation and Storage Tanks and includes substantial information on the costs and details of the potential application of VOC controls to wineries and addresses many of the technical issues of the general site specific factors for wineries.
- The collection system consists of stainless steel place ductwork (stainless steel is required due to food grade product status) with isolation valving, connecting the tanks to a common manifold system which ducts the combined vent to the common control device. The cost of dampers and isolation valving, installed in the ductwork, will be included in the cost estimate.

- The District performed a cost survey of stainless steel ducting/piping and found that the values stated in the Eichleay report including the cost of inflation (applied as stated below) were cheaper; therefore, as a conservative estimate, the District will use the cost of ducting/piping from the Eichleay report which will include ducting, fittings, bolt up, handle, and install. A summary of the survey is included in Attachment G3.
- Eichleay's cost estimate for ducting included the duct, fittings, bolt up, handle and install. When additional costs, as allowed for in the EPA Control Cost Manual, were added onto the ducting cost estimate, the facility double counted some of the costs that Eichleay already accounted for in their estimate; therefore, the District did not allow the additional costs for foundations & supports, handling & erection, electrical, piping or painting.
- Additionally, the facility included an inflation amount of 2.75% per year from 2005 through 2015 to adjust the Eichleay cost to present value. The District found this inflation value to be unfounded and was replaced with an inflation amount of 21.93% for the period of 2005 to 2016 taken from United States Department of Labor Bureau of Labor Statistics' CIP Inflation Calculator: http://www.bls.gov/data/inflation_calculator.htm.
- Due to the lower CO2 flowrates coming from winery storage tanks, the ducting from each tank to the main duct, adequate sizing will be established at 3" diameter. For the main duct itself, a minimum duct size is established at 6" diameter to provide adequate strength for spanning between supports.
- The Eichleay study did not provide costs for 3" pipe; therefore, the ratio of the 3" pipe cost to the 6" pipe cost from the District's cost survey of 54% ($30.85:$57.26) will be applied to Eichleay's 6" pipe cost. See Attachment G3 for a summary of the cost survey. Therefore, a cost of $33.57 ($62.27 x 54%) will be used for the 3" pipe.
- See Attachment G1 for ducting layout diagrams and ducting cost estimates.
- One of the major concerns of a manifold duct system is microorganisms spoiling the product, and transferring from one tank to another. It is necessary to design into the system a positive disconnect of the ducting system when the tanks are not being filled. There are a number of ways this can be done. In this case, an automatic butterfly valve with a physical spool to disconnect the tank from the duct will be utilized.

Capital Cost of Ductwork

As detailed in the tank layout sketches and the ductwork cost calculations included in Attachment E2, the cost for each tank group is summarized below:

Tank Group 1 (wine storage tanks only):

Connection from tank to main duct = 24 tanks x 25.75 feet x $33.57/foot = $20,746
Main duct for fermenters = $53,157
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 24 valves x 1 system = $51,000
Unit installed cost one foot removable spool = $500/tank x 24 tanks x 1 system = $12,000
1 Knockout drum = $0
Duct support allowance = $80,000

Total for Group 1 = $20,746 + $53,157 + $51,000 + $12,000 + $0 + $80,000
= $216,903

Tank Group 2 (wine storage tanks only):

Connection from tank to main duct = 16 tanks x 46.51 feet x $33.57/foot = $24,981
Main duct for fermenters = $20,944
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 16 valves x 1 system = $34,000
Unit installed cost one foot removable spool = $500/tank x 16 tanks x 1 system = $8,000
1 Knockout drum = $0
Duct support allowance = $50,000

Total for Group 2 = $24,981 + $20,944 + $34,000 + $8,000 + $0 + $50,000
= $137,925

Tank Groups 2a and 2b (wine fermentation and storage tanks):

Analysis for this tank group was already performed under the wine fermentation tank top down BACT analysis in Appendix F above.

Tank Group 3 (wine storage tanks only):

Connection from 350k tanks to main duct = 16 tanks x 54.04 feet x $33.57/foot = $29,026
Connection from 215k tanks to main duct = 8 tanks x 61.50 feet x $33.57/foot = $16,516
Main duct for fermenters = $68,042
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 24 valves x 1 system = $51,000
Unit installed cost one foot removable spool = $500/tank x 24 tanks x 1 system = $12,000
1 Knockout drum = $0
Duct support allowance = $25,000

Total for Group 3 = $29,026 + $16,516 + $68,042 + $51,000 + $12,000 + $0 + $25,000
= $201,584

Tank Group 3a (wine fermentation and storage tanks):

Analysis for this tank group was already performed under the wine fermentation tank top down BACT analysis in Appendix F above.

Tank Group 4 (wine storage tanks only):

Connection from tank to main duct = 20 tanks x 43.04 feet x $33.57/foot = $28,897
Main duct for fermenters = $8,107
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 20 valves x 1 system = $42,500
Unit installed cost one foot removable spool = $500/tank x 20 tanks x 1 system = $10,000
1 Knockout drum = $0
Duct support allowance = $50,000

Total for Group 4 = $28,897 + $8,107 + $42,500 + $10,000 + $0 + $50,000
= $139,504

Tank Group 4a (wine fermentation and storage tanks):

Analysis for this tank group was already performed under the wine fermentation tank top down BACT analysis in Appendix F above.

Tank Group 5 (wine storage tanks only):

Connection from tank to main duct = 20 tanks x 46.54 feet x $33.57/foot = $18,748
Main duct for fermenters = $20,033
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 12 valves x 1 system = $25,500
Unit installed cost one foot removable spool = $500/tank x 12 tanks x 1 system = $6,000
1 Knockout drum = $0
Duct support allowance = $25,000

Total for Group 5 = $18,748 + $20,033 + $25,500 + $6,000 + $0 + $25,000
= $95,281

Tank Group 5a (wine fermentation and storage tanks):

Analysis for this tank group was already performed under the wine fermentation tank top down BACT analysis in Appendix F above.

Total Capital Cost for All Tank Groups:

The total capital cost of the ductwork for all five tank groups is summarized in the table below:

Tank Group	Total Ducting Cost Including Support Allowance
1	$216,903
2	$137,925
2a	$247,124
2b	$326,519
3	$201,584
3a	$603,661
4	$139,504
4a	$450,307
5	$95,281
5a	$274,443
Total	$2,693,251

Capital Cost of Ductwork for Wine Fermentation Tanks	
Cost Description	Cost ($)
Combined Duct Estimate for all Tank Groups (See Duct Sizing in Attachment G2)	$2,693,251
Adjusting factor for inflation from 2005 dollars to 2015 dollars (21.93% total increase)	1.2193
Inflation adjusted duct cost	$3,283,881
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Ductwork) See Above	$3,283,881
Instrumentation (not required)	-
Sales Tax - 3.31% of base equipment	$108,696
Freight - 5% of base equipment	$164,194
Purchased equipment cost (PEC)	**$3,556,771**
Foundations & supports 8% (allowance already included in cost estimate)	-
Handling & erection 14% (already included in Eichleay cost estimate)	-
Electrical 4% (not required)	-
Piping 2% (not required)	-
Painting 1% (not required)	-
Insulation 1% of PEC	$35,568
Direct Installation Costs (DIC)	**$35,568**
Total Direct Costs (DC) (PEC + DIC)	**$3,592,339**
Indirect Costs	
Engineering - 10% of PEC	$355,677
Construction and field expenses - 5% of PEC	$177,839
Contractor Fees - 10% of PEC	$355,677
Start-up - 2% of PEC	$71,135
Performance Test - 1% of PEC	$35,568
Total Indirect Costs (IC)	**$995,896**
Subtotal Capital Investment (SCI) (DC + IC)	**$4,588,235**
Contingencies – 15% of SCI	$688,235
Total Capital Investment (TCI) (SCI + Contingency)	**$5,276,470**

Capital Cost Clean-In-Place (CIP) System

A ducting system on a tank farm must have this system to maintain sanitation and quality of the product. The cost of operation of the CIP system has not been estimated. Operation of a CIP system, using typical cleaning agents, will raise disposal and wastewater treatment costs. Most likely, these costs will be significant.

Capital Cost of Clean-In-Place (CIP) System of Ductwork for Wine Fermentation Tanks	
Cost Description	Cost ($)
Current cost of CIP system ($200,000 x 10 collection systems)	$2,000,000
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (CIP System) See Above	$2,000,000
Instrumentation - 10% of base equipment	$200,000
Sales Tax - 3.31% of base equipment	$66,200
Freight - 5% of base equipment	$100,000
Purchased equipment cost (PEC)	**$2,366,200**
Foundations & supports - 8% of PEC	$189,296
Handling & erection - 14% of PEC	$331,268
Electrical - 4% of PEC	$94,648
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$23,662
Insulation - 1% of PEC	$23,662
Direct Installation Costs (DIC)	**$662,536**
Total Direct Costs (DC) (PEC + DIC)	**$3,028,736**
Indirect Costs	
Engineering - 10% of PEC	$236,620
Construction and field expenses - 5% of PEC	$118,310
Contractor fees - 10% of PEC	$236,620
Start-up - 2% of PEC	$47,324
Performance test - 1% of PEC	$23,662
Total Indirect Costs (IC)	**$662,536**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,691,272**
Contingencies - 15% of SCI	$553,691
Total Capital Investment (TCI) (SCI + Contingency)	**$4,244,963**

Annualized Capital Cost

Total capital costs = Ductwork + CIP System
= $5,276,470 + $4,244,963
= $9,521,433

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Total Collection System Annualized Capital Investment = $9,521,433 x 0.163

Total Collection System Annualized Capital Investment = $1,551,994

Option 1 - Collection of VOCs and Control by Thermal or Catalytic Oxidation (98% collection & control):

Design Basis

- Due to their location at the winery near other fermentation tanks and because the additional flow rate from the storage tanks is minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks within tank groups 2 and 3 have already been included and analyzed in the control equipment associated with fermentation groups 2a, 2b and 3a respectively in Appendix F above. Therefore, as a conservative estimate, costs to install additional control equipment for tank groups 2 and 3 will not be included as part of this BACT analysis for wine storage tanks.

Thermal/Catalytic Oxidizer Capital Cost

Thermal/Catalytic Oxidizer Capital Cost – Tanks in Fermentation and Storage Service

The capital cost for RTOs serving the tanks in fermentation and storage service were previously established in Appendix F above and are summarized in the following table.

Control Unit	Tank Group	Total RTO Equipment Budget Price Including Support Allowance	RTO Installation Cost
RTO EU2	2a	$394,100	$25,000
RTO EU3	2b	$333,600	$25,000
RTO EU4	3	$797,800	$47,000
RTO EU6	4	$540,800	$27,900
RTO EU7	5	$582,300	$28,500
	Total	$2,648,600	$153,400

Thermal/Catalytic Oxidizer Capital Cost – Tanks in Storage Service Only

Due to the low flow rates from the wine storage tanks in tank groups 1, 4, and 5, B&W Megtec did not provide a capital investment cost for an RTO capable of serving these tanks. Under a different project currently being processed by the District for Bear Creek Winery (FID N-96, Project 1153192), a total capital investment cost for an RTO sized to handle 1,054 scfm of CO_2 flowrate was provided by Adwest Technologies. As the size of that RTO is similar to the RTOs that would be necessary to control the estimated CO_2 flowrates for the storage tank groups 1,4, and 5 within this project, that estimate will be used for the purposes of this top down BACT analysis. The costs provided from Adwest Technologies are summarized as follows:

RTO Capital Cost = $150,000
RTO Installation Cost = $34,670

As shown above, the airflow rates of the control systems needed to control the storage tank groups in this project are not 1,054 cfm. In order to estimate the capital cost of the RTO equipment needed for each tank group, the cost value referenced above will need to be scaled. To be conservative, the cost will not be scaled linearly but instead, the cost will be adjusted up to the required flow rates using the 6/10 power rule. The 6/10 power rule is a way to account for economies of scale (the larger the equipment is, the lower the cost of equipment per unit of capacity) and is considered generally accurate to within ± 20%. To account for the accuracy within ± 20% and to address EPA's concern with using this scaling method as expressed in their comments made on previous District project N-1133555, the District will conservatively use a modified 6/10 power rule and adjust the scaled cost down by 20%. A sample modified 6/10 power rule calculation for tank group 1 is shown below and results in the following estimated capitol cost for a carbon adsorption system designed to handle 1,176 cfm:

Capitol Cost $= Cost_{base} \times [(Capacity_{new}/Capacity_{base})^{0.6}] \times (1 - 0.2)_{Accuracy\ Adjustment}$
$= \$80,000 \times [(1,176/1,054)^{0.6}] \times 0.8$
$= \$236,160$

A summary of the thermal oxidizer system equipment costs for each tank group are summarized in the following table:

Capital Cost:					
Tank Group	Max CO_2 Flowrate for Tank Group (scfm)	$(Capacity_{new}/Capacity_{base})^{0.6}$	Accuracy Adjustment	Cost for 1,000 cfm System	Estimated Capital Cost for Tank Group
1	1,176	1.07	0.8	$150,000	$128,400
4	588	0.70	0.8	$150,000	$84,000
5	588	0.70	0.8	$150,000	$84,000
Total					$296,400

Installation Cost:					
Tank Group	Max CO_2 Flowrate for Tank Group (scfm)	$(Capacity_{new} / Capacity_{base})^{0.6}$	Accuracy Adjustment	Cost for 1,000 cfm System	Estimated Installation Cost for Tank Group
1	1,176	1.07	0.8	$34,670	$29,678
4	588	0.70	0.8	$34,670	$19,415
5	588	0.70	0.8	$34,670	$19,415
Total					$68,508

Therefore, the total thermal/catalytic oxidizer capital cost is as follows:

Total Capital Cost = Tanks in Fermentation and Storage Service + Tanks in Storage Service Only
= $2,648,600 + $296,400
= $2,945,000

And the total thermal/catalytic oxidizer installation costs are as follows:

Total Installation Cost = Tanks in Fermentation and Storage Service + Tanks in Storage Service Only
= $153,400 + $68,508
= $221,908

Thermal/Catalytic Oxidation Capital Cost	
Cost Description	Cost ($)
Regenerative Thermal Oxidizer cost (five units)	$2,945,000
Installation cost (provided in cost estimates)	$221,908
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs for Regenerative Thermal Oxidizer System (see above)	$3,166,908
Instrumentation - 10% of base equipment	$316,691
Sales Tax - 3.31% of base equipment	$104,825
Freight - 5% of base equipment	$158,345
Purchased equipment cost (PEC)	**$3,746,769**
Foundations & supports - 8% of PEC	$299,742
Handling & erection - 14% of PEC	$524,548
Electrical - 4% of PEC	$149,871
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$37,468
Insulation - 1% of PEC	$37,468
PLC/Programming - 8 units x $10,000	$80,000
Direct installation costs	**$1,129,097**
Total Direct Costs (DC)	**$4,875,866**
Indirect Costs	
Engineering - 10% of PEC	$374,677
Contractor fees - 10% of PEC	$374,677
Start-up (provided by B&W Megtec)	$45,000
Initial Source Testing - 8 units x $15,000/unit	$120,000
Owner's Cost (allowance not requested)	-
Total Indirect Costs (IC)	**$914,354**
Subtotal Capital Investment (SCI) (DC + IC)	**$5,790,220**
Contingencies - 15% of SCI	$868,533
Total Capital Investment (TCI) (SCI + Contingency)	**$6,658,753**

Annualized Capital Costs

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = $6,658,753 x 0.163 = $1,085,377

Operation and Maintenance Costs

The Direct annual costs include labor (operating, supervisory, and maintenance), maintenance materials, electricity, and fuel.

Heat of Combustion for waste gas stream -dh(c):

heat of combustion -dHc = 11,800 Btu/lb as ethanol
Daily VOC emissions rate = 49,395.7 lb/day (from calculations in Appendix B)
Blower flow rate = 117,204 scfm (flow rates estimated above for groups 1, 4, and 5 and all fermentation and storage tanks)
= 168,773,760 ft^3/day

-dh(c) = 49,395.7 lb/day x 11,800 Btu/lb ÷ 168,773,760 0 ft^3/day
= 3.45 Btu/ft^3

Assuming the waste gas is principally air, with a molecular weight of 28.97 and a corresponding density of 0.0739 lb/scf, the heat of combustion per pound of incoming waste gas is:

-dh(c) = 3.45 Btu/ft^3 ÷ 0.0739 lb/ft^3
= 46.68 Btu/lb

Fuel Flow Requirement

$$Q(fuel) = \frac{Pw*Qw*\{Cp*[1.1Tf-Tw-0.1Tr]-[-dh(c)]\}}{P(ef) * [-dh(m) - 1.1\ Cp * (Tf - Tr)]}$$

Where
Pw = 0.0739 lb/ft^3
Cp = 0.255 Btu/lb-°F
Qw = 112,892 scfm
-dh(m) = 11,800 Btu/lb for ethanol
Tr = 77°F assume ambient conditions
ρ(af) = 0.0408 lb/ft^3
Tf = 1,600°F
Tw = 1,525°F
-dh(c) = 46.14 Btu/lb

$$Q = \frac{0.0739*117{,}204\ *\{0.255*[1.1*1{,}600-1{,}525-0.1*77]-46.68\}}{0.0408*[11{,}800 - 1.1*0.255*(1{,}600 - 77)]}$$

= 97,713 ÷ 464 = 210.6 ft^3/min

Fuel Costs

The cost for natural gas shall be based upon the average price of natural gas sold to "Commercial Consumers" in California for the years 2013, 2013 and 2015.[7]

2015 = \$7.98/thousand ft^3 total monthly average
2014 = \$9.05/thousand ft^3 total monthly average
2013 = \$7.81/thousand ft^3 total monthly average
Average for three years = \$8.28/thousand ft^3 total monthly average

Fuel Cost = 210.6 cfm x 2 shifts/day x 8 hrs/shift x 60 min/hr x 365 day/year x \$8.28/1000 ft^3
= \$611,016/year

Electricity Requirement

$$\text{Power}_{fan} = \frac{1.17*10^{-4}\ Qw*\ \Delta P}{\in}$$

Where
ΔP = Pressure drop Across system = 4 in. H_2O
$\in$ = Efficiency for fan and motor = 0.6
Qw = 117,204 scfm

$$\text{Power}_{fan} = \frac{1.17*10^{-4}*117{,}204\ \text{cfm}*\ 4\ \text{in. } H_2O}{0.60}$$
= 91.42 kW

Electricity Costs

Average cost of electricity to commercial users in California[8]:

2015 Average = \$0.1579/kWh

Electricity Cost = 91.42 kW x 2 shifts/day x 8 hrs/shift x 365 day/year x \$0.1579/kWh
= \$84,302 /year

[7] Energy Information Administration/Natural Gas; Average Price of Natural Gas Sold to Commercial Consumers by State, 2013 – 2015.
[8] Energy Information Administration/Electric Power; Average Retail Price of Electricity to Ultimate Customers by End-Use Sector, by State, 2015 http://www.eia.gov/electricity/data/browser/#/topic/7?agg=0,1&geo=000000000004&endsec=vg&freq=A&start=2001&end=2015&ctype=linechart&ltype=pin&rtype=s&maptype=0&rse=0&pin=.

Total Operating and Maintenance Costs

Annual Costs (Based on: EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.2: VOC Destruction Controls, Chapter 2: Incinerators (September 2000), Table 2.10 - Annual Costs for Thermal and Catalytic Incinerators Example Problem. United States Environmental Protection Agency Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina 27711. EPA/452/B-02-001)[9].

Thermal/Catalytic Oxidizer Annual Costs			
Direct Annual Cost (DAC)			
Operating Labor			
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 8 units	$54,020
Supervisor	15% of operator		$8,103
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 8 units	$54,020
Maintenance	100% of labor		$54,020
Utility			
Natural Gas	see calculation above		$611,016
Electricity	see calculation above		$84,302
Total DAC			**$865,481**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($54,020 + $8,103 + ($54,020 + $54,020)	$102,098
Administrative	2% of TCI		$133,175
Property Taxes	1% of TCI		$66,587
Insurance	1% of TCI		$66,587
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$383,447**
Annual Operating Cost (DAC + IAC)			**$1,248,928**

Total Annual Cost

Total Annual Cost = Regenerative Thermal Oxidizer System + Annual Cost + Ductwork/CIP Cost
= $1,085,377 + $1,248,928 + $1,551,994
= $3,886,299

[9] http://epa.gov/ttn/catc/dir1/cs3-2ch2.pdf

Emission Reductions

Annual Emission Reduction = Uncontrolled Storage Emissions x 0.98
= 191,260 lb-VOC/year x 0.98
= 187,435 lb-VOC/year
= 93.72 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $3,886,299/year ÷ 93.72 tons-VOC/year
= $41,467/ton-VOC

The analysis demonstrates that the annualized purchase cost of the regenerative thermal oxidizer system, collection system ductwork and CIP equipment, and annual costs results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 2 - Collection of VOCs and control by carbon adsorption (95% collection and control):

Design Basis

- Due to their location at the winery near other fermentation tanks and because the additional flow rate from the storage tanks is minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks within tank groups 2 and 3 have already been included and analyzed in the control equipment associated with fermentation groups 2a, 2b and 3a respectively in Appendix F above. Therefore, as a conservative estimate, costs to install additional control equipment for tank groups 2 and 3 will not be included as part of this BACT analysis for wine storage tanks.
- Additional costs which were conservatively not evaluated in the cost analysis below include but are not limited to:
  - The cost for a tank to collect the condensed ethanol laden steam from regeneration of the carbon bed.
  - Annual steam costs required to regenerate the carbon beds.
  - Annual cooling water costs required to condense the ethanol laden steam from regeneration of the carbon beds and the condenser equipment.
  - Electricity costs of system fans, bed drying/cooling fans and cooling water pumps.
- Ethanol laden water is a byproduct produced when the carbon is regenerated with steam and the ethanol laden steam is condensed. The collected ethanol laden water will need to be disposed of and can be a significant cost; however, conservatively, the costs will not be included at this time.

Capital Cost for Carbon Adsorption Equipment

Capital Cost for Carbon Adsorption Equipment – Tanks in Fermentation and Storage Service

The capital cost for carbon adsorption equipment serving the tanks in fermentation and storage service were previously established in Appendix F above and are summarized in the following table.

Tank Group	Estimated Capital Cost for Tank Group
2a	$236,160
2b	$184,960
3	$491,520
4	$372,480
5	$362,880
Total	$1,648,000

Capital Cost for Carbon Adsorption Equipment – Tanks in Storage Service Only

The District contacted suppliers of carbon adsorption systems to obtain cost estimates for a system designed to handle the total flow rate from the fermentation tanks being proposed under this project. However, as of the time of this analysis, the District has not yet received replies from the carbon adsorption system suppliers. Therefore, the equipment cost for a carbon adsorption system used in this analysis will be based on the cost of a budgetary estimate for a 1,000 cfm system controlling wine fermentation tanks supplied by David Drewelow of Drewelow Remediation Equipment, Inc. on February 3, 2015 of $80,000 to $85,000. This system would include a gas/liquid separator, an inline filter, blower, exhaust silencer and air to air heat exchanger. Therefore, the cost for a carbon adsorption system handling 1,000 cfm will be conservatively estimated to be $80,000.

As shown above, the airflow rates of the control systems needed to control the fermentation tank groups in this project are larger than 1,000 cfm. In order to estimate the capital cost of the carbon adsorption system equipment needed for each tank group, the cost value referenced above will need to be scaled. To be conservative, the cost will not be scaled linearly but instead, the cost will be adjusted up to the required flow rates using the 6/10 power rule[10]. The 6/10 power rule is a way to account for economies of scale (the larger the equipment is, the lower the cost of equipment per unit of capacity[11]) and is considered generally accurate to within ± 20%. To account for the accuracy within ± 20% and to address EPA's concern with using this scaling method as expressed in their comments made on previous District project N-1133555, the District will conservatively use a modified 6/10 power rule and adjust the scaled cost down by 20%. A sample modified 6/10 power rule calculation for tank group 2a is shown below and results in the following estimated capitol cost for a carbon adsorption system designed to handle 8,803 cfm:

[10] See the following websites for additional information: http://www.pdhonline.org/courses/g127/g127content.pdf
[11] http://faculty.ksu.edu.sa/5556/Documents/Chapter%205.ppt

Capitol Cost = $Cost_{base}$ x [($Capacity_{new}/Capacity_{base}$)$^{0.6}$] x (1 - 0.2)$_{Accuracy\ Adjustment}$
= $80,000 x [(8,803/1,000)$^{0.6}$] x 0.8
= $236,160

A summary of the carbon adsorption system equipment costs for each tank group are summarized in the following table:

Tank Group	Max CO_2 Flowrate for Tank Group (scfm)	($Capacity_{new}$ / $Capacity_{base}$)$^{0.6}$	Accuracy Adjustment	Cost for 1,000 cfm System	Estimated Capital Cost for Tank Group
1	1,176	1.10	0.8	$80,000	$70,400
4	588	0.73	0.8	$80,000	$46,720
5	588	0.73	0.8	$80,000	$46,720
Total					$163,840

Therefore, the total carbon adsorption capital cost is as follows:

Total Capital Cost = Tanks in Fermentation and Storage Service + Tanks in Storage Service Only
= $1,648,000 + $163,840
= $1,811,840

Capital Cost of Carbon for System

Annual Emission Reduction = Fermentation Emissions x 0.95
= 191,260 lb-VOC/year x 0.95
= 181,697 lb-VOC/year

Assume a working bed capacity of 20% for carbon (weight of vapor per weight of carbon)

Carbon required = 181,697 lb-VOC/year x 1/0.20
= 908,485 lb carbon

David Drewelow also provided a cost of $1.25/lb of carbon which does not include any delivery or servicing fees.

Annual carbon cost = $1.25/lb = $1.25/lb x 908,485 lb carbon = $1,135,606

Carbon Adsorption Capital Cost		
Cost Description	Equipment Cost ($)	Carbon Cost ($)
Carbon Adsorption System Cost (see above)	$1,811,840	-
Water alcohol tank cost (not included)	-	-
Carbon Capital Cost (see above)	-	$1,135,606
The following cost data is based on the EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002) (EPA/452/B-02-001).		
Direct Costs		
Base Equipment Costs (Carbon Adsorption System + Water Alcohol Tank + Carbon) See Above	$1,811,840	$1,135,606
Instrumentation - 10% of base equipment	$181,184	-
Sales Tax - 3.31% of base equipment	$59,972	$37,589
Freight - 5% of base equipment	$90,592	$56,780
Purchased Equipment Cost (PEC)	**$2,143,588**	**$1,229,975**
Foundations & supports - 8% of PEC	$171,487	-
Handling & erection - 14% of PEC	$300,102	-
Electrical - 4% of PEC	$85,744	-
Piping – accounted for in ductwork cost	-	-
Painting - 1% of PEC	$21,436	-
Insulation - 1% of PEC	$21,436	-
PLC/Programming - $10,000 x 8 tank groups	$80,000	-
Direct installation costs	**$680,205**	**$0**
Total Direct Costs (DC)	**$2,823,793**	**$1,229,975**
Indirect Costs		
Engineering - 10% of PEC	$214,359	-
Construction and field expenses - 5% of PEC	$107,179	-
Contractor fees - 10% of PEC	$214,359	-
Start-up - 2% of PEC	$42,872	-
Initial Source Testing - 8 units x $15,000/unit	$120,000	-
Owner's Cost (allowance not requested)	-	-
Total Indirect Costs (IC)	**$698,769**	**$0**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,522,562**	**$1,229,975**
Contingencies - 15% of SCI	$528,384	-
Total Capital Investment (TCI) (SCI + Contingency)	**$4,050,946**	**$1,229,975**

Annualized Capital Cost for Carbon Adsorption Equipment

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment for Carbon Adsorption Equipment = $4,050,946 x 0.163 = $660,304

Annualized Cost for Carbon for System

The EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.1: VOC Recapture Controls, Chapter 1: Carbon Adsorbers (September 1999)[12] states, "*A typical life for the carbon is five years. However, if the inlet contains VOCs that are very difficult to desorb, tend to polymerize, or react with other constituents, a shorter carbon lifetime— perhaps as low as two years—would be likely.*"

Assuming the maximum carbon life of five years and a 10% interest rate the capitol recovery cost for the carbon =

$\left[\frac{0.1(1.1)^{5}}{(1.1)^{5}-1}\right]$ = 0.264 over 5 years at 10% interest

Therefore,

Annualized Capital Investment for Carbon for System = $1,229,975 x 0.264 = $324,713

Annualized Cost of Carbon Adsorption Equipment + Annualized Cost of Carbon for System

Annualized Capital Cost for Carbon Adsorption System = $660,304 + $324,713 = $985,017

Total Operation and Maintenance Costs

The annual operation and maintenance costs for the carbon adsorption system are based on the information given in the EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.1: VOC Recapture Controls, Chapter 1: Carbon Adsorbers (September 1999)[12]. No value will be given for the ethanol that may be potentially recovered since this ethanol could actually result in additional disposal costs, which will also not be quantified in this analysis.

[12] EPA Air Pollution Control Cost Manual, Sixth Edition (January 2002), Section 3.1: VOC Recapture Controls, Chapter 1: Carbon Adsorbers (September 1999). United States Environmental Protection Agency Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina 27711, EPA/452/B-02-001, http://epa.gov/ttn/catc/dir1/cs3-1ch1.pdf.

Carbon Adsorption Annual Costs			
Direct Annual Cost (DAC)			
Operating Labor			
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 8 units	$54,020
Supervisor	15% of operator		$8,103
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 8 units	$54,020
Maintenance	100% of labor		$54,020
Utility			
Natural Gas from Steam Production (not included)			-
Electricity (not included)			-
Total DAC			**$170,163**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($54,020+ $8,103 + $54,020+ $54,020)	$102,098
Administrative	2% of TCI		$78,144
Property Taxes	1% of TCI		$39,072
Insurance	1% of TCI		$39,072
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$273,386**
Annual Cost (DAC + IAC)			**$443,549**

Total Annual Cost for Carbon Adsorption

Total Annual Cost = Carbon Adsorption Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $985,017 + $443,549 + $1,551,994
= $2,980,560

Emission Reductions

Annual Emission Reduction = Fermentation Emissions x 0.95
= 191,260 lb-VOC/year x 0.95
= 181,697 lb-VOC/year
= 90.85 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,980,560/year ÷ 90.85 tons-VOC/year
= $32,807/ton-VOC

The analysis demonstrates that the annualized purchase cost of the carbon adsorption system and collection system ductwork and CIP equipment results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 3 - Collection of VOCs and Control by Absorption/Scrubber (90% collection & control):

Design Basis

- The District contacted Maurice McIntosh and Ad Verkuylen of NohBell Corporation on March 16, 2016 to allow NohBell Corporation an opportunity to provide cost information for this project. The District did not receive updated cost information from NohBell Corporation; therefore, cost estimates from NohBell Corporation will not be included as a part of this BACT analysis.
- Due to their location at the winery near other fermentation tanks and because the additional flow rate from the storage tanks is minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks within tank groups 2 and 3 have already been included and analyzed in the control equipment associated with fermentation groups 2a, 2b and 3a respectively in Appendix F above. Therefore, as a conservative estimate, costs to install additional control equipment for tank groups 2 and 3 will not be included as part of this BACT analysis for wine storage tanks.
- Recovered ethanol storage tank = $40,000 per control unit (installed, as proposed in Project C-1133347)
- Connected electrical load for each unit is 2.5 horsepower which is assumed to operate continuously for 90 days.
- Electric power cost = $0.1579/kWh (see regenerative thermal oxidizer Top Down BACT Analysis section above)
- Since the EPA Control Cost Manual does not contain a section for wet scrubbers controlling VOCs, conservatively, the costs in addition to the base equipment costs, will be estimated from the Wet Scrubbers for Particulate Matter control from the EPA Control Cost Manual.

Scrubber Capital Equipment Cost

Capital Cost for Scrubber– Tanks in Fermentation and Storage Service

The capital cost for scrubbers serving the tank groups in fermentation and storage service were previously established in Appendix D above and are summarized in the following table.

Tank Group	Equipment Budget Price
2a	$210,000
2b	$175,000
3	$350,000
4	$270,000
5	$270,000
Total:	$1,275,000

Capital Cost for Scrubber– Tanks in Storage Service Only

The total capital investment and installation cost for a scrubber (absorption technology) was provided by D. R Technology on December 11, 2015. No other vendor provided cost estimates for scrubber technology while serving these storage only tank groups. The cost estimates D. R. Technology are summarized in the table below:

Control Unit	Tank Group	D. R Technology Scrubber Equipment Budget Price
1	1	$75,000
5	4	$75,000
8	5	$75,000
Total:		$225,000

Therefore, the total scrubber capital cost is as follows:

Total Capital Cost = Tanks in Fermentation and Storage Service + Tanks in Storage Service Only
= $1,275,000 + $225,000
= $1,500,000

Scrubber Capital Cost	
Cost Description	Cost ($)
Scrubber System (eight units)	$1,500,000
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Scrubber System) See Above	$1,500,000
Instrumentation - 10% of base equipment	$150,000
Sales Tax - 3.31% of base equipment	$49,650
Freight - 5% of base equipment	$75,000
Purchased Equipment Cost (PEC)	**$1,774,650**
Foundations & supports – 6% of PEC	$106,479
Handling & erection - 40% of PEC	$709,860
Electrical - 1% of PEC	$17,747
Piping - accounted for in ductwork cost	-
Painting - 1% of PEC	$17,747
Insulation - 3% of PEC	$53,240
PLC/Programming - $10,000 x 8 control units	$80,000
Recovered Ethanol Storage Tank (installed) ($40,000 x 8 control units)	$320,000
Direct Installation Costs (DIC)	**$1,305,073**
Direct Costs (DC) (PEC + DIC)	**$3,079,723**
Indirect Costs	
Engineering - 10% of PEC	$177,465
Construction and field expenses - 10% of PEC	$177,465
Contractor fees - 10% of PEC	$177,465
Start-up - 1% of PEC	$17,747
Initial Source Testing - 8 units x $15,000/unit	$120,000
Owner's Cost (allowance not requested)	-
Indirect Costs (IC)	**$670,142**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,749,865**
Contingencies - 15% of SCI	$562,480
Total Capital Investment (TCI) (SCI + Contingency)	**$4,312,345**

Annualized Capital Costs

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.163, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = $4,312,345 x 0.163 = $702,912

Wastewater Disposal Costs

Additionally, the water scrubber will generate ethanol-laden wastewater containing 86.1 tons-ethanol annually (191,260 lb/year (uncontrolled fermentation emissions) x 0.90 ÷ 2000). Assuming a 10% solution, approximately 260,121 gallons of waste water (86.1 ton-ethanol x 2000 lb/ton x gal/6.62 lb ÷ 0.10) will be generated annually. Per project C-1133347, an allowance of $0.08 per gallon is applied for disposal costs.

Annual disposal costs = 260,121 gallons x $0.08/gallon = $20,810

Total Operation and Maintenance Costs

Scrubber Annual Costs				
Direct Annual Cost (DAC)				
Operating Labor				
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 8 units		$54,020
Supervisor	15% of operator			$8,103
Maintenance				
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 8 units		$54,020
Maintenance	100% of labor			$54,020
Wastewater Disposal				
	10% Solution = 260,121 gal		$0.08/gal	$20,810
Utility				
Electricity	8 units x 2.5 hp x 0.746 kW/hp x 16 hr/day x 365 day/yr = 87,133 kWh/yr		$0.1579/kWh	$13,758
Total DAC				**$204,731**
Indirect Annual Cost (IAC)				
Overhead	60% of Labor Cost	0.6 x ($54,020 + $8,103 + $54,020 + $54,020)		$102,098
Administrative	2% of TCI			$86,247
Property Taxes	1% of TCI			$43,123
Insurance	1% of TCI			$43,123
Annual Source Test	One representative test/year @ $15,000			$15,000
Total IAC				**$289,591**
Annual Cost (DAC + IAC)				**$494,322**

Total Annual Cost = Scrubber Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $702,912 + $494,322 + $1,551,994
= $2,749,228

Emission Reductions

The District's BACT Guideline identifies an overall collection and control efficiency of 90% for absorption systems.

Annual Emission Reduction = Uncontrolled Fermentation Emissions x 0.90
= 191,260 lb-VOC/year x 0.90
= 172,134 lb-VOC/year
= 86.07 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,749,228/year ÷ 86.07 tons-VOC/year
= $31,942/ton-VOC

The analysis demonstrates that the annualized purchase cost of the scrubber and annual costs results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 4 - Capture of VOCs and Condensation (70% collection & control):

Design Basis

- Due to their location at the winery near other fermentation tanks and because the additional flow rate from the storage tanks is minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks within tank groups 2 and 3 have already been included and analyzed in the control equipment associated with fermentation groups 2a, 2b and 3a respectively in Appendix F above. Therefore, as a conservative estimate, costs to install additional control equipment for tank groups 2 and 3 will not be included as part of this BACT analysis for wine storage tanks.
- Additional costs which were conservatively not evaluated in the cost analysis below include but are not limited to:
    - Glycol chiller system.
- This control technology recovers ethanol which potentially requires additional cost to dispose of. The District currently knows of two winery facilities that recover ethanol: Central Coast Wine Services and Terravant Winery, both located within the Santa Barbara County. Information from the Santa Barbara County APCD indicates that neither facility generates any revenue from the recovered ethanol. Central Coast Wine Services sends their recovered ethanol to a facility in San Luis Obispo that refines the recovered ethanol into motor vehicle fuels and Terravant Winery utilizes a UV system to destroy the ethanol. Although EcoPAS claims that there is value in the recovered ethanol in a future market that may be developed, the District will conservatively assume that there is no cost required to dispose/treat the recovered ethanol nor is there a value in the recovered ethanol.

Equipment Cost Refrigerated Condenser

Equipment Cost Refrigerated Condenser – Tanks in Fermentation and Storage Service

The capital cost for condensers serving the tank groups in fermentation and storage service were previously established in Appendix F above and are summarized below.

Condenser CapEx Cost =$11,310,000

Equipment Cost Refrigerated Condenser – Tanks in Storage Service Only

EcoPAS did not provide cost estimates for their condenser technology while only serving wine storage tanks. Using the values from the fermentation top down BACT analysis in Appendix D, a total CO_2 flowrate of 81,360 scfm required a total of 58 PAS condenser control units. Therefore, it can be expected that one PAS control unit can handle approximately 1,402 scfm of CO_2 flowrate (81,360 scfm / 58 units).

In addition, per EcoPAS' cost estimates provided for the fermentation tank top down BACT analysis in Appendix D, 58 PAS units resulted in a total capital cost (CapEx) of $11,310,000. Therefore, it can be estimated that the CapEx cost of one PAS control unit is $195,000 ($11,310,000 / 58).

As shown above, the airflow rates of the control systems needed to control the storage tank groups in this project are not 1,402 cfm. In order to estimate the capital cost of a condensation system equipment needed for each tank group, the cost value referenced above will need to be scaled. To be conservative, the cost will not be scaled linearly but instead, the cost will be adjusted up to the required flow rates using the 6/10 power rule. The 6/10 power rule is a way to account for economies of scale (the larger the equipment is, the lower the cost of equipment per unit of capacity) and is considered generally accurate to within ± 20%. To account for the accuracy within ± 20% and to address EPA's concern with using this scaling method as expressed in their comments made on previous District project N-1133555, the District will conservatively use a modified 6/10 power rule and adjust the scaled cost down by 20%. A sample modified 6/10 power rule calculation for tank group 1 is shown below and results in the following estimated capitol cost for a carbon adsorption system designed to handle 8,803 cfm:

Capitol Cost $= Cost_{base} \times [(Capacity_{new}/Capacity_{base})^{0.6}] \times (1 - 0.2)_{Accuracy\ Adjustment}$
$= \$195,000 \times [(1,176/1,402)^{0.6}] \times 0.8$
$= \$140,385$

A summary of the condensation system equipment costs for each storage tank group are summarized in the following table:

Tank Group	Max CO_2 Flowrate for Tank Group (scfm)	$(Capacity_{new} / Capacity_{base})^{0.6}$	Accuracy Adjustment	Cost for 1,402 cfm System	Estimated Capital Cost for Tank Group
1	1,176	0.90	0.8	$195,000	$140,400
4	588	0.59	0.8	$195,000	$92,040
5	588	0.59	0.8	$195,000	$92,040
Total					$324,480

Therefore, the total condensation capital cost is as follows:

Total Capital Cost = Tanks in Fermentation and Storage Service + Tanks in Storage Service Only
= $11,310,000 + $324,480
= $11,634,480

Condensation Capital Cost	
Cost Description	Cost ($)
Cost of Refrigerated Condenser system (61 PAS Units)	$11,634,480
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Condenser) See Above	$11,634,480
Instrumentation - 10% of base equipment	$1,163,448
Sales Tax - 3.31% of base equipment	$385,101
Freight - 5% of base equipment	$581,724
Purchased equipment cost (PEC)	**$13,764,753**
Foundations & supports - 14% of PEC	$1,927,065
Handling & erection - 8% of PEC	$1,101,180
Electrical - 8% of PEC	$1,101,180
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$137,648
Insulation - 10% of PEC	$1,376,475
PLC & Programming - 61 units x $10,000	$610,000
Direct Installation Costs (DIC)	**$6,253,548**
Total Direct Costs (DC) (PEC + DIC)	**$20,018,301**
Indirect Costs	
Engineering - 10% of PEC	$1,376,475
Construction and field expenses - 5% of PEC	$688,238
Contractor fees - 10% of PEC	$1,376,475
Start-up - 2% of PEC	$275,295
Source Testing - 61 units x $15,000/unit	$915,000
Owner's Cost (allowance not requested)	-
Total Indirect Costs (IC)	**$4,631,483**
Subtotal Capital Investment (SCI) (DC + IC)	**$24,649,784**
Contingencies - 15% of SCI	$3,697,468
Total Capital Investment (TCI) (DC + IC)	**$28,347,252**

Annualized Capital Costs

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10}-1}\right]$ = 0.1627, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = $28,347,252 x 0.163 = $4,620,602

Total Operation and Maintenance Costs

Condensation Annual Costs			
Direct Annual Cost (DAC)			
Operating Labor			
Operator	0.5 hr/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 61 units	$411,903
Supervisor	15% of operator		$61,785
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 61 units	$411,903
Maintenance	100% of labor		$411,903
Chiller (Glycol)			
Not included at this time			-
Utility (Electricity)			
Not included at this time			-
Total DAC			**$1,297,494**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($411,903 + $61,785 + $411,903 + $411,903)	$778,496
Administrative	2% of TCI		$566,945
Property Taxes	1% of TCI		$283,473
Insurance	1% of TCI		$283,473
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$1,927,387**
Annual Cost (DAC + IAC)			**$3,224,881**

Total Annual Cost = Condenser Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $4,620,602 + $3,224,881 + $1,551,994
= $9,397,477

Emission Reductions

The District's BACT Guideline identifies an overall collection and control efficiency of 70% for absorption systems.

Annual Emission Reduction = Uncontrolled Fermentation Emissions x 0.70
= 191,260 lb-VOC/year x 0.70
= 133,882 lb-VOC/year
= 66.94 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $9,397,477/year ÷ 66.94 tons-VOC/year
= $140,387/ton-VOC

The analysis demonstrates that the annualized purchase cost of the refrigerated condenser system and annual costs results in a cost effectiveness which exceeds the District's Guideline of $17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

Option 5 - Insulation, PVRV, "Gas-Tight" Tank Operation, and Storage Temperature not Exceeding 75 deg F, Achieved within 60 days of Completion of Fermentation):

The only remaining control option in step 3 above has been deemed AIP for this class and category of source and per the District BACT policy is required regardless of the cost. Therefore, a cost effectiveness analysis is not required.

Step 5 – Select BACT

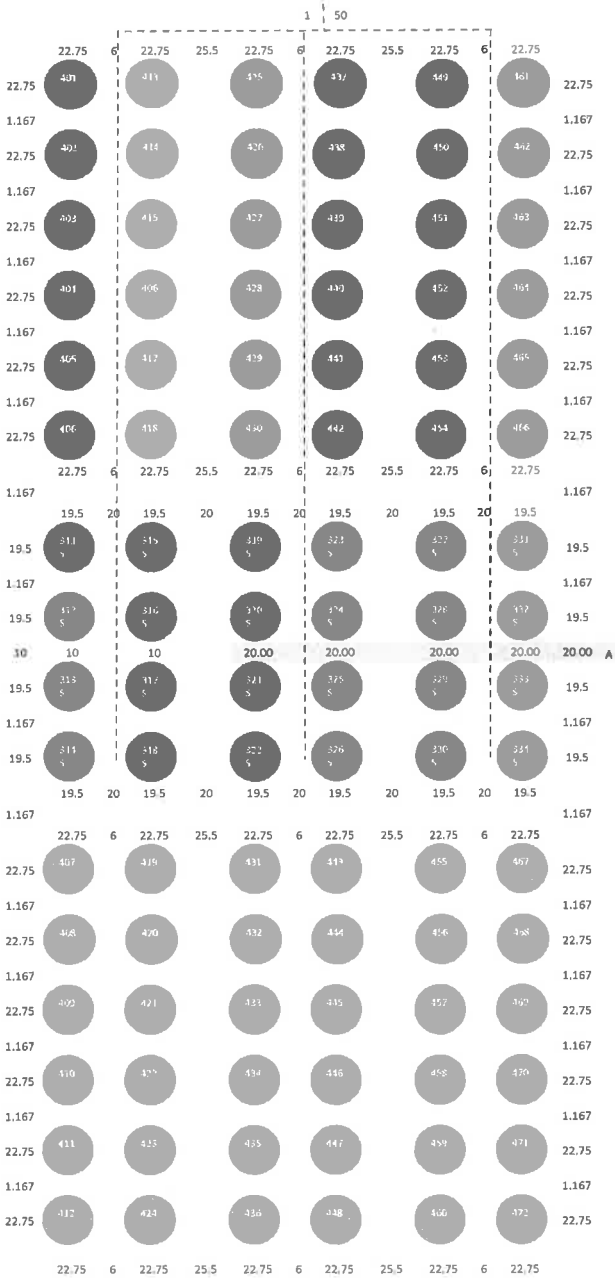
All identified feasible options with control efficiencies higher than the option proposed by the facility have been shown to not be cost effective. Each of these wine storage tanks is already equipped and/or operated in a manner that complies with Option 5, insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75°F within 60 days of completion of fermentation. These BACT requirements will be placed on the ATC as enforceable conditions.

Attachment G1

Ducting Layout Diagrams and Ducting Cost Estimates

Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base

CIP and Emission Control Units #1 (Group 1)



The tanks in this diagram are graphically shown as the same size for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

214.502 Length to Emission control unit at pipe junction
143.502

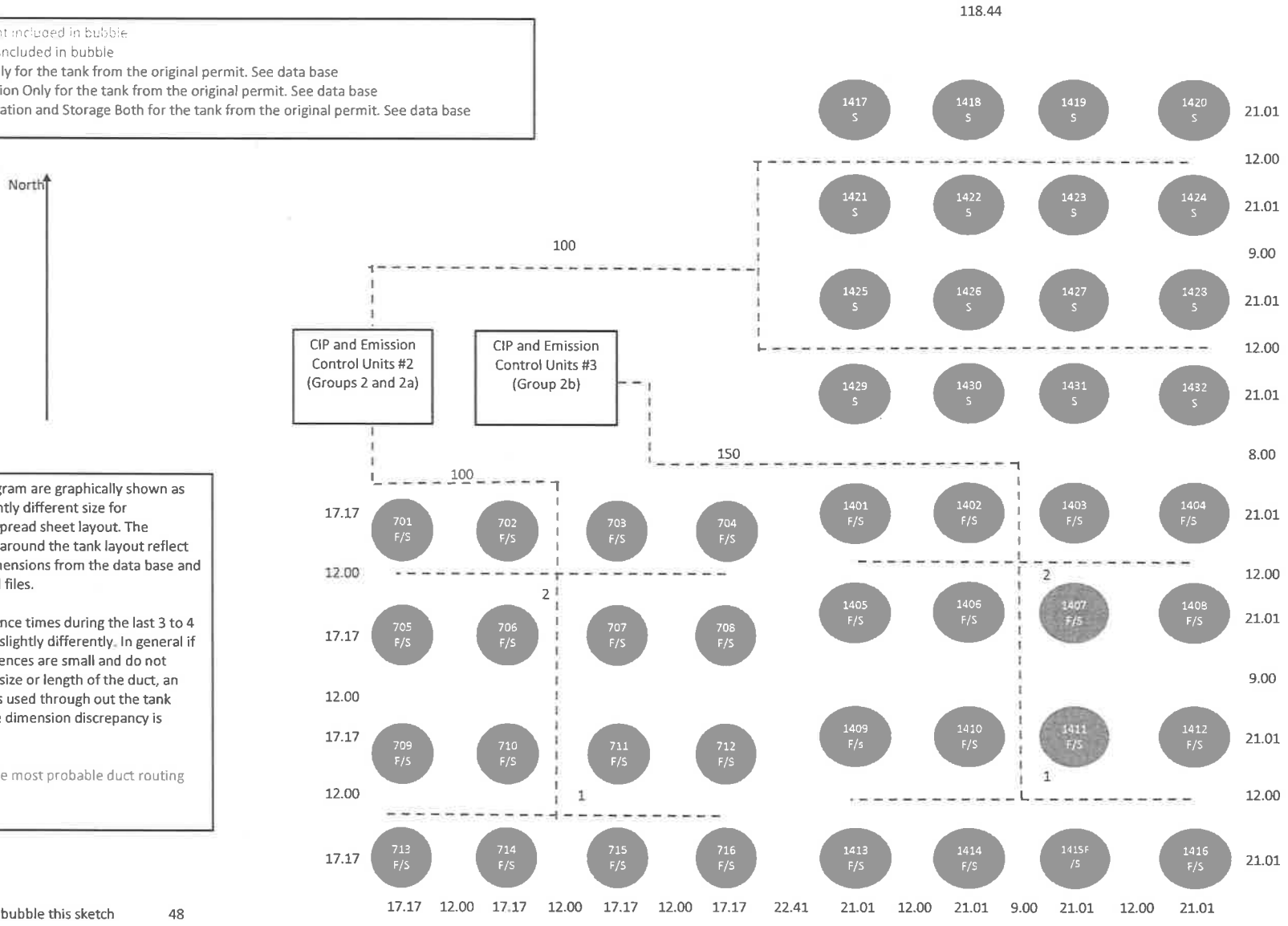
A wider bridge was construct in the second and third bank of tanks

Total tanks in bubble this sketch 24

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group 1 24 35,000 Gallon Tanks	N/A	N/A	N/A	25.75	40	48.91	0	1.93	6.00		24	618	$46.63	$28,816.13	Reduced to 3 inch size due to low gas flow
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
	314/318	313/317	20.67	0	40	48.91	0	1.93	6.00	0	21		$62.17	$1,284.88	Main Duct Set at 6 inch size due to structural spans and uncertainty of the number of pumps pumping
	313/317	312/316	29.50	0	40	48.91	0	1.93	6.00	0	30		$62.17	$1,834.04	
	312/316	311/315	20.67	0	40	48.91	0	1.93	6.00	0	21		$62.17	$1,284.88	
Assume 50 percent of the tanks are pumping	311/315	Junction 1	214.50	0	40	195.63	0	3.87	6.00	0	215		$62.17	$13,335.75	
	322/326	321/325	20.67	0	40	48.91	0	1.93	6.00	0	21		$62.17	$1,284.88	Main Duct Set at 6 inch size due to structural spans and uncertainty of the number of pumps pumping
	321/325	320/324	39.50	0	40	48.91	0	1.93	6.00	0	40		$62.17	$2,455.74	
	320/324	319/323	20.67	0	40	48.57	0	1.93	6.00	0	21		$62.17	$1,284.88	
Assume 50 percent of the tanks are pumping	319/323	Junction 1	143.50	0	40	194.28	0	3.85	6.00	0	144		$62.17	$8,921.62	
	330/334	329/333	20.67	0	40	48.57	0	1.93	6.00	0	21		$62.17	$1,284.88	Main Duct Set at 6 inch size due to structural spans and uncertainty of the number of pumps pumping
	329/333	328/332	39.50	0	40	48.57	0	1.93	6.00	0	40		$62.17	$2,455.74	
	328/332	327/331	20.67	0	40	48.57	0	1.93	6.00	0	21		$62.17	$1,284.88	
Assume 50 percent of the tanks are pumping	319/323	Junction 1	214.50	0	40	194.28	0	3.85	6.00	0	215		$62.17	$13,335.75	
	Junction 1	Emission Controls	50.00	0	40	584.19	0	6.68	6.00	0	50		$62.17	$3,108.54	
													Sum	$81,973	
													Redundant Main Duct for CIP on Fermenters Only	$0	
													1 Knock drums (7000 gallons) for foam overs on fermenters	$0	Eichleay
													Ducting Isolation Components for all tanks without redundant main (X2)	$63,000	Previous Work
													The main process pipe ways will need some modification to support the emission ducting systems.	$80,000	Allowance

Ducting Cost	$144,973
Support Allowance	$80,000
Grand sum Tota	**$224,973**

Blue tanks not included in bubble
Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base



The tanks in this diagram are graphically shown as the same size or slightly different size for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

Total tanks in bubble this sketch 48

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #2 105K Tanks Storage Only	N/A	N/A	N/A	46.51	40	48.58	0	1.93	6.00		16	744	$46.63	$34,695.00	Reduced to 3 inch size due to low gas flow
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50.0 percent of the tanks are pumping		Main Duct Total Length	336.88	0.00	40	388.67	0	3.63	6.00	16		337	$62.17	$20,944.08	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drums (7000 gallons) for foam overs on fermenters	$0	Eichleay
Ducting Isolation Components for all tanks without redundant main (X2)	$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$50,000	Allowance
Ducting Cost	$97,639	
Support Allowance	$50,000	
Total	**$147,639**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #2a 70K Tanks Fermentation	N/A	N/A	N/A	36.00	40	0.00	358	5.23	6.00		16	576	$62.17	$35,810.34	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	716/712	715/711	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	715/711	Duct Joint 1	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	709/713	710/714	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	710/714	Duct Joint 1	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	Duct Joint 1	Duct Joint 2	58.34	0.00	40	0.00	2,867	14.80	16.00	8		58	$204.52	$11,931.75	
	704/708	703/707	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	703/707	Duct Joint 2	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	701/705	702/706	29.17	0.00	40	0.00	717	7.40	8.00	2		29	$103.25	$3,011.86	
	702/706	Duct Joint 2	14.59	0.00	40	0.00	1,434	10.47	12.00	4		15	$143.83	$2,097.71	
	Duct Joint 2	Emission Controls	100.00	0.00	40	0.00	5,734	20.93	22.00	16		100	$306.44	$30,644.00	
													Sum	$98,824.38	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drums (7000 gallons) for foam overs on fermenters	$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main	$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$60,000	Allowance
Ducting Cost	$187,124	
Support Allowance	$60,000	
Total	**$247,124**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #2b 10S Tanks Fermentation	N/A	N/A	N/A	30.00	40	0.00	538	6.41	8.00		16	480	$103.25	$49,560.98	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	1416/1412	1415/1411	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1415/1411	Duct Joint 1	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	1409/1413	1410/1414	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1410/1414	Duct Joint 1	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	Duct Joint 1	Duct Joint 2	63.02	0.00	40	0.00	4,301	18.13	20.00	8		63	$309.38	$19,496.81	
	1404/1408	1403/1407	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1403/1407	Duct Joint 2	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	1401/1405	1402/1406	33.01	0.00	40	0.00	1,075	9.06	10.00	2		33	$144.33	$4,764.44	
	1402/1406	Duct Joint 2	15.01	0.00	40	0.00	2,150	12.82	14.00	4		15	$174.17	$2,613.48	
	Duct Joint 2	Emission Controls	150.00	0.00	40	0.00	8,602	25.63	26.00	16		150	$397.67	$59,650.00	
													Sum	$158,219.47	

Redundant Main Duct for CIP on Fermenters Only		$0	
1 Knock drums (7000 gallons) for foam overs on fermenters		$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main		$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.		$80,000	Allowance
	Ducting Cost	$246,519	
	Support Allowance	$80,000	
	Total	$326,519	
	Grand Sum Total	**$721,283**	

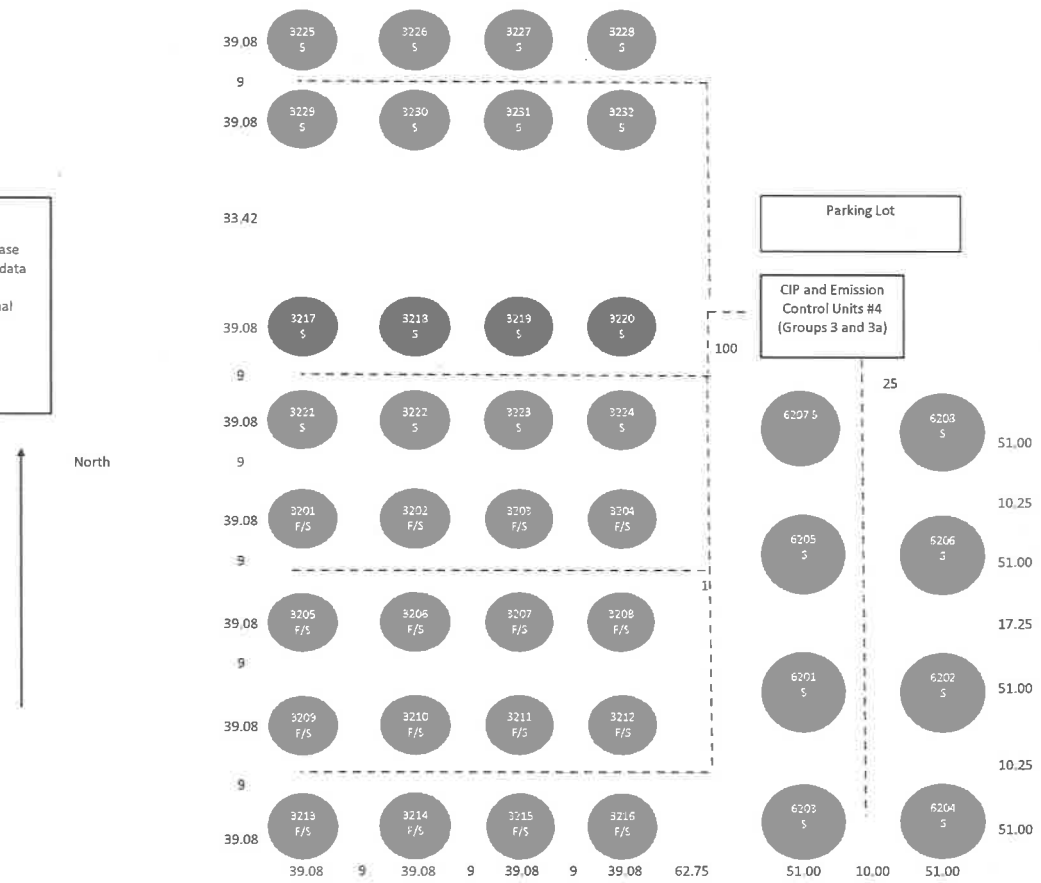
Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base

The tanks in this diagram are graphically shown as two sizes for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

Total tanks in bubble this sketch 40



Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #3 350K Tanks Storage Only	N/A	N/A	N/A	54.04	40	48.54	0	1.93	6.00		16	865	$46.63	$40,316.48	Reduced to 3 inch size due to low gas flow
Group #3 650K Tanks Storage Only	N/A	N/A	N/A	61.50	40	48.53	0	1.93	6.00		8	492	$62.17	$30,588.00	
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50 percent of the tanks are pumping 350K tanks		Main Duct Total Length	513.73	0.00	40	388.28	0	5.45	8.00	16		514	$103.25	$53,043.15	
Assume 50 percent of the tanks are pumping 650K tanks		Main Duct Total Length	241.25	0.00	40	194.14	0	3.85	6.00	8		241	$62.17	$14,998.69	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drums (7000 gallons) for foam overs on fermenters	$0	Eichleay
Ducting Isolation Components for all tanks without redundant main (X2)	$63,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$25,000	Allowance
Ducting Cost	$201,946	
Support Allowance	$25,000	
Total	**$226,946**	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #3a 350K Tanks Fermentation	N/A	N/A	N/A	54.04	40	0.00	1,792	11.70	12.00		16	865	$143.83	$124,358.29	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	3209/3213	3210/3214	48.08	0.00	40	0.00	3,584	16.55	18.00	2		48	$251.38	$12,086.24	
	3210/3214	3211/3215	48.08	0.00	40	0.00	7,168	23.40	24.00	4		48	$397.67	$19,119.81	
	3211/3215	3212/3216	48.08	0.00	40	0.00	10,752	28.66	30.00	6		48	$476.73	$22,921.18	
	3212/3216	Duct Joint 1	190.66	0.00	40	0.00	14,336	33.09	34.00	8		191	$476.73	$90,890.96	
	3201/3205	3202/3206	48.08	0.00	40	0.00	3,584	16.55	18.00	2		48	$251.38	$12,086.24	
	3202/3206	3203/3207	48.08	0.00	40	0.00	7,168	23.40	24.00	4		48	$397.67	$19,119.81	
	3203/3207	3204/3208	48.08	0.00	40	0.00	10,752	28.66	30.00	6		48	$476.73	$22,921.18	
	3204/3208	Duct Joint 1	50.92	0.00	40	0.00	14,336	33.09	34.00	8		51	$476.73	$24,272.71	
	Duct Joint 1	Emission Controls	196.16	0.00	40	0.00	28,672	46.80	48.00	16		196	$548.46	$107,585.02	
													Sum	$455,361.44	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drum (7000 gallons) for foam overs on fermenters	$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main	$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$60,000	Allowance
Ducting Cost	$543,661	
Support Allowance	$60,000	
Total	**$603,661**	
Grand Sum Total	**$830,608**	

Blue tanks not included in bubble
Green tanks included in bubble
S=Storage only for the tank from the original permit. See data base
F=Fermentation Only for the tank from the original permit. See data base
F/S=Fermentation and Storage Both for the tank from the original permit. See data base.

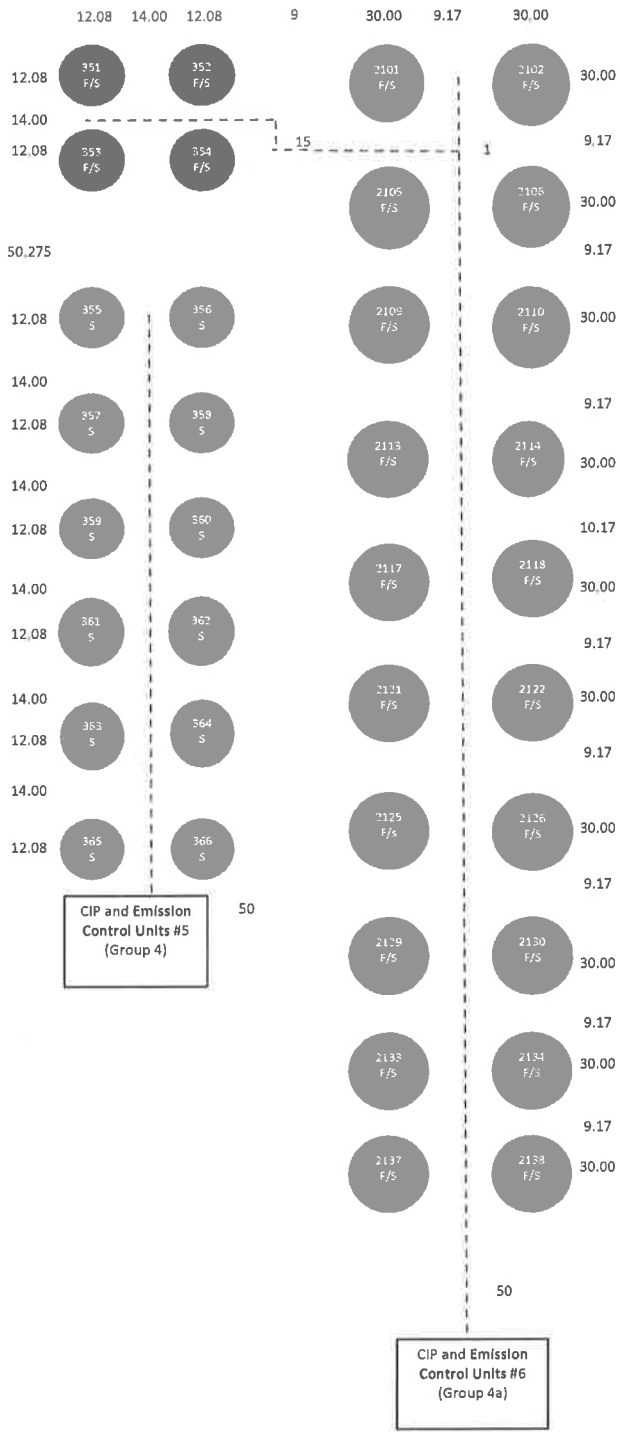
The tanks in this diagram are graphically shown as two sizes for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

North

Total tanks in bubble this sketch 36



Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #4 35K Tanks Storage Only	N/A	N/A	N/A	43.04	40	48.52	0	1.93	6.00		20	861	$46.63	$40,137.42	Reduced to 3 inch size due to low gas flow
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only															
Assume 50 percent of the tanks are pumping 35K tanks		Main Duct Total Length	0.00	130.40	40	291.13	0	4.72	6.00		130		$62.17	$8,107.06	Use 6 inch main
Redundant Main Duct for CIP on Fermenters Only														$0	
1 Knock drums (7000 gallons) for foam overs on fermenters														$0	Eichleay
Ducting Isolation Components for all tanks without redundant main (X2)														$52,500	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.														$50,000	Allowance
Ducting Cost														$100,744	
Support Allowance														$25,000	
Total														$125,744	

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #4a 35K Tanks Fermentation	N/A	N/A	N/A	43.04	40	0.00	179	3.70	6.00		4	172	$62.17	$10,703.31	
Group #4a 215K Tanks Fermentation	N/A	N/A	N/A	49.59	40	0.00	1,101	9.17	10.00		16	793	$144.33	$114,508.29	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	351/353	352/354	26.08	0.00	40	0.00	358	5.23	6.00	2		26	$46.63	$1,216.06	
	352/354	Junction 1	55.63	0.00	40	0.00	717	7.40	8.00	4		56	$103.25	$5,743.39	
	2101/2102	Junction 1	19.59	0.00	40	0.00	2,918	14.93	16.00	2		20	$204.52	$4,005.54	
	Junction 1	2105/2106	15.00	0.00	40	0.00	5,120	19.78	20.00	4		15	$309.38	$4,640.63	
	2105/2106	2109/2110	39.17	0.00	40	0.00	7,322	23.65	24.00	6		39	$397.67	$15,576.60	
	2109/2110	2113/2114	39.17	0.00	40	0.00	9,523	26.97	28.00	8		39	$476.73	$18,673.64	
	2113/2114	2117/2118	40.17	0.00	40	0.00	11,725	29.93	30.00	10		40	$476.73	$19,150.24	
	2117/2118	2221/2122	39.17	0.00	40	0.00	13,926	32.62	34.00	12		39	$476.73	$18,673.51	
	2121/2122	2125/2126	39.17	0.00	40	0.00	16,128	35.10	36.00	14		39	$548.46	$21,483.18	
	2125/2126	2129/2130	39.17	0.00	40	0.00	18,330	37.42	38.00	16		39	$548.46	$21,483.18	
	2129/2130	Emission controls	65.00	0.00	40	0.00	18,330	37.42	38.00	16		65	$548.46	$35,649.90	
														$291,507.49	
Redundant Main Duct for CIP on Fermenters Only														$0	
1 Knock drum (7000 gallons) for foam overs on fermenters														$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main														$52,500	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.														$60,000	Allowance
Ducting Cost														$390,307	
Support Allowance														$60,000	
Total														$450,307	
Grand Sum Total														**$576,052**	

Green tanks included in bubble

S=Storage only for the tank from the original permit. See data base

F=Fermentation Only for the tank from the original permit. See data base

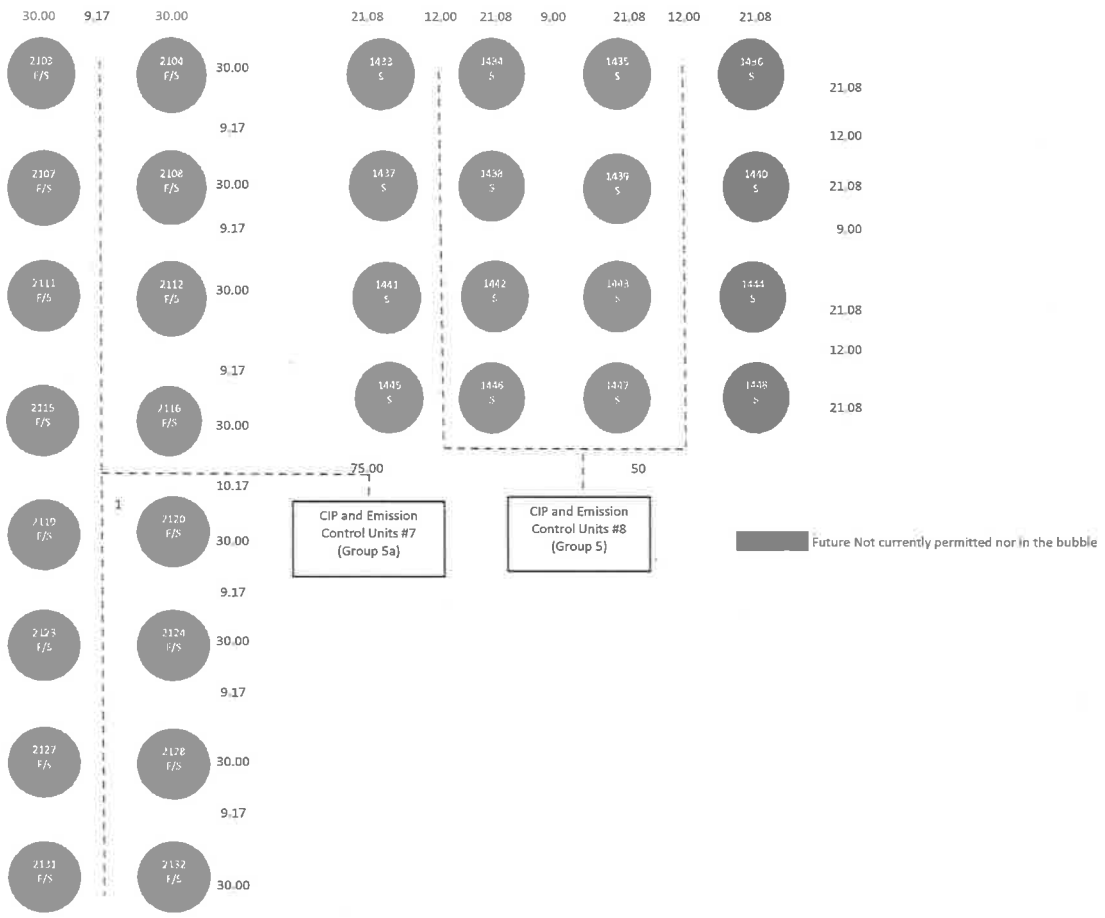
F/S=Fermentation and Storage Both for the tank from the original permit. See data base.

The tanks in this diagram are graphically shown as two sizes for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and final layout Auto Cad files.

Tanks built at difference times during the last 3 to 4 years can be spaced slightly differently. In general if the dimension differences are small and do not material change the size or length of the duct, an uniform dimension is used through out the tank layout. Generally the dimension discrepancy is about a foot.

Red dashed line is the most probable duct routing

North



Total tanks in bubble this sketch 28

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #5 105K Tanks Storage Only	N/A	N/A	N/A	46.54	40	48.52	0	1.93	6.00		12	558	$46.63	$26,040.83	Reduced to 3 inch size due to low gas flow
The original modeling was for storage only. In a bubble permit some fermentation could be done in these tanks under the bubble. For BACT analysis of the bubble we used only storage per original permits. The result may be that the cost effectiveness stated in the BACT analysis tabs may be lower than value that might be obtained if fermentation was considered. This is due to larger ducts and gas flows in wine fermentation verses storage only.															
Assume 50 percent of the tanks are pumping 105K Tanks		Main Duct Total Length	0.00	322.22	40	291.13	0	4.72	6.00			322	$62.17	$20,032.65	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drums (7000 gallons) for foam overs on fermenters	$0	Eichleay
Ducting Isolation Components for all tanks without redundant main (X2)	$31,500	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$25,000	Allowance

Ducting Cost	$77,573
Support Allowance	$25,000
Total	**$102,573**

Comments	Beginning Tank Number	Ending Tank Number	Length Between Nodes	From Tank to Main Duct Length Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill	Fermentation CFM at maximum CO2 rate from kinetic model	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks feeding Ending Node	Number of Tanks to connect	Total feet	Cost Per Foot from Eichleay (See Comments)	Cost	Comments
Group #5a 215K Tanks Fermentation	N/A	N/A	N/A	49.59	40	0.00	1,101	9.17	10.00		16	793	$108.25	$85,881.22	
The original modeling was for fermentation only. The fermentation sets the duct and emission control equipment size. Storage will continue to be done in the quantities described in the original permit, but ducting cost will be based on fermentation.															
	2103/2104	2107/2108	39.17	0.00	40	0.00	2,202	12.97	14.00	2		39	$174.17	$6,822.39	
	2107/2108	2111/2112	39.17	0.00	40	0.00	4,403	18.34	20.00	4		39	$309.38	$12,118.22	
	2111/2112	2115/2116	39.17	0.00	40	0.00	6,605	22.46	24.00	6		39	$397.67	$15,576.60	
	2115/2116	Junction 1	20.09	0.00	40	0.00	8,806	25.94	26.00	8		20	$397.67	$7,987.14	
	2131/2132	2127/2128	39.17	0.00	40	0.00	2,202	12.97	14.00	2		39	$174.17	$6,822.39	
	2127/2128	2123/2124	39.17	0.00	40	0.00	4,403	18.34	20.00	4		39	$309.38	$12,118.22	
	2123/2124	2119/2120	39.17	0.00	40	0.00	6,605	22.46	24.00	6		39	$397.67	$15,576.60	
	2119/2120	Junction 1	20.09	0.00	40	0.00	8,806	25.94	26.00	8		20	$397.67	$7,987.14	
	Junction 1	Emission Controls	75.00	0.00	40	0.00	17,613	36.68	38.00	16		75	$548.46	$41,134.50	
														$126,143.19	

Redundant Main Duct for CIP on Fermenters Only	$0	
1 Knock drum (7000 gallons) for foam overs on fermenters	$46,300	Eichleay
Ducting Isolation Components for all tanks with redundant main	$42,000	Previous Work
The main process pipe ways will need some modification to support the emission ducting systems.	$60,000	Allowance

Ducting Cost	$214,443
Support Allowance	$60,000
Total	**$274,443**

Grand Sum Total **$377,017**

Attachment G2

Storage Tank CO_2 Flowrate Estimates

Tank Numbers		311-318	319-326	351-354	355-362	363-366	327-334	701-716	1401-1442 Plus 1445-1446	2101-2116	2117-2132	2133-2134 Plus 2137-2138	3201-3216	3217-3224	3225-3232	6201-6208	Units
The working volume of the tank is (in gallons)		35,000	35,000	35,000	35,000	35,000	35,000	70,000	105,000	215,000	215,000	215,000	350,000	350,000	350,000	629,000	Gallons
The Idea gas law applies PV= NRT																	
P equals the absolute atmosphere pressure		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Atm
N equals the number of Lb-moles of the vapor space gas																	Lb-Moles
V = the volume																	Cubic Feet
T = the absolute temperature in Degrees Rankine		520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	Deg R
R= Gas Law Constant		0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	Atm x Cubic foot/Deg R x LB-mole
Density of Dry Air at 60 Deg F		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	Lb/cubic foot
Molecular Weight of N2		28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	28.01	
Molecular Weight of O2		31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	
Molecular Weight of Alcohol		46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	46.02	
Molecular Weight of Water		18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02	
Percent of Air that is N2 Source Hand Book Chemistry and Physics		78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	
Percent of Air that is O2 Source Hand Book Chemistry and Physics		20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	
Molecular Weight of Air		28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	
Moles of air displaced assuming air does not dissolve into the wine.		13.10	13.10	13.10	13.10	13.10	13.10	26.19	39.29	80.45	80.45	80.45	130.97	130.97	130.97	235.37	Lb-moles
AMW		27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1256	27.1255	27.1255	27.1255	27.1255	
Ya		0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	0.3252	
Daily Emissions in Pounds/Turn of water and alcohol		11.60	9.06	9.15	8.70	9.15	9.06	18.35	27.52	56.35	53.02	53.02	91.71	91.53	91.53	164.85	
Weight of water exiting tank from Tank 4.0 model		5.20	4.06	4.10	3.90	4.10	4.06	8.22	12.34	25.26	23.77	23.77	41.11	41.03	41.03	73.90	Lb's
Weight of alcohol exiting tank from Tank 4.0 model		6.40	5.00	5.05	4.80	5.05	5.00	10.12	15.18	31.09	29.25	29.25	50.60	50.50	50.50	90.95	Lb's
Moles of alcohol exiting the tank from Tanks 4.0 model		0.14	0.11	0.11	0.10	0.11	0.11	0.22	0.33	0.68	0.64	0.64	1.10	1.10	1.10	1.98	Lb-moles
Moles of water exiting the tank from Tanks 4.0 model		0.29	0.23	0.23	0.22	0.23	0.23	0.46	0.68	1.40	1.32	1.32	2.28	2.28	2.28	4.10	Lb-moles
Total number of moles leaving the tank		13.52	13.43	13.43	13.42	13.43	13.43	26.87	40.31	82.53	82.41	82.41	134.35	134.34	134.34	241.45	
Cubic feet of gas leaving the tank per ideal gas law		5,135.32	5,099.80	5,101.07	5,094.73	5,101.07	5,099.80	10,202.69	15,304.02	31,336.82	31,290.20	31,290.20	51,013.24	51,010.70	51,010.70	91,678.42	Cubic feet
The tank is filled in 12 hours		105.00	105.00	105.00	105.00	105.00	105.00	210.00	315.00	646.00	646.00	646.00	1,051.00	1,051.00	1,051.00	1,889.00	Minutes
Gas flow rate on filling		48.91	48.57	48.58	48.57	48.58	48.57	48.58	48.58	48.51	48.44	48.44	48.54	48.54	48.54	48.53	CFM
Gas composition on a molar bases																	
	Air	0.9684	0.9751	0.9749	0.9761	0.9749	0.9751	0.9748	0.9748	0.9748	0.9763	0.9763	0.9748	0.9749	0.9749	0.9748	%
	Water	0.0213	0.0168	0.0169	0.0161	0.0169	0.0168	0.0170	0.0170	0.0170	0.0160	0.0160	0.0170	0.0169	0.0169	0.0170	%
	Alcohol	0.0103	0.0081	0.0082	0.0078	0.0082	0.0081	0.0082	0.0082	0.0082	0.0077	0.0077	0.0082	0.0082	0.0082	0.0082	%
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Gas composition on a weight bases																	
	Air	0.9699	0.9764	0.9761	0.9773	0.9761	0.9764	0.9761	0.9761	0.9761	0.9775	0.9775	0.9761	0.9761	0.9761	0.9761	%
	Water	0.0135	0.0106	0.0107	0.0102	0.0107	0.0106	0.0107	0.0107	0.0107	0.0101	0.0101	0.0107	0.0107	0.0107	0.0107	%
	Alcohol	0.0166	0.0130	0.0132	0.0125	0.0132	0.0130	0.0132	0.0132	0.0132	0.0124	0.0124	0.0132	0.0132	0.0132	0.0132	%
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Cp Air Molar		7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	7.0021	Btu/# mole-Deg F
Temperature Differential Deg F		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Heat to be removed from Air		3,668	3,668	3,668	3,668	3,668	3,668	7,336	11,005	22,533	22,533	22,533	36,682	36,682	36,682	65,923	Moles
Moles of Water and Alcohol to be condensed to a liquid		0.4276	0.3341	0.3374	0.3207	0.3374	0.3341	0.6763	1.0145	2.0773	1.9545	1.9545	3.3811	3.3744	3.3744	6.0772	Moles
Energy to be removed from Water alcohol per Mole		19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	Btu/Lb-Mole
Energy to be removed from Water alcohol		8,218	6,420	6,485	6,164	6,485	6,420	12,997	19,495	39,919	37,559	37,559	64,975	64,846	64,846	116,786	BTU
Total Energy to be Removed		11,886	10,089	10,153	9,832	10,153	10,089	20,333	30,500	62,452	60,093	60,093	101,657	101,529	101,529	182,710	BTU
Energy to be Removed per Hour		6792.2	5764.9	5801.6	5618.2	5801.6	5764.9	5809.5	5809.5	5800.5	5581.4	5581.4	5803.4	5796.1	5796.1	5803.4	BTU's/Hour
Tons of Refrigeration		0.566	0.480	0.483	0.468	0.483	0.480	0.484	0.484	0.483	0.465	0.465	0.484	0.483	0.483	0.484	

1) The gas flow rate (shown in the brown cells) is for one tank at a maximum turnover rate of 1 turn per day. Each turn fills the tank to its maximum working volume and then empties it. The process is repeated the next day.

2) It is assume the control device would only be needed in the filling process. Several of the tanks may be filling one time. Their location within the 176 tanks is random. On smaller tanks it is customary to throttle the flow.

3) If a group of tanks is equipped with a fermenter ducting system it should be adequate for the storage emissions as well. An examination of the gas flow rates shows the reverse is not true, thus a duct system installed for storage only is likely to be too small for any fermentation activities.

Source Hand Book of Chemistry and Physics 91 Edition Air Properties

Deg F	Density of Air at 280 of Air KG/ Cubic Meter	Pound/Kg
60.000	1.25	2.20

Attachment G3

Comparison of Stainless Steel Ducting Costs

Ducting/Piping Cost Comparison

Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"
Eichleay - Ducting/Piping Only $/Foot	--	--	--	$23.17	$38.59	$54.00	$62.00	$65.50	$69.00	$86.00	$92.00	$99.00	$106.00	$119.00
Eichleay - Ducting/Piping Only $/Foot Including 21.93% for Inflation	--	--	--	$28.25	$47.05	$65.84	$75.60	$79.86	$84.13	$104.86	$112.18	$120.71	$129.25	$145.10
Average of District Cost Survey in $/Foot	$15.49	$30.85	$27.67	$44.13	$37.50	$33.13	$93.75	$181.70	$216.50	$189.02	$308.40	--	$193.99	--

Ducting/Piping Costs based on Eichleay Report

Note: Minimum of 6" Diameter for Structural Support														
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"
Ducting/Piping Only $/Foot	--	--	--	$23.17	$38.59	$54.00	$62.00	$65.50	$69.00	$86.00	$92.00	$99.00	$106.00	$119.00
Ducting + Fittings, Bolt Up, Handling, & Install $/Foot	--	--	--	$62.17	$103.25	$144.33	$143.83	$174.17	$204.52	$251.38	$309.38	$306.44	$397.67	$476.73
Ducting + Fittings, Bolt Up, Handling, & Install $/Foot	--	--	--	$62.17	$103.25	$144.33	$143.83	$174.17	$204.52	$251.38	$309.38	$306.44	$397.67	$476.73

Supplier: Grainger (http://www.grainger.com) **Location: Fresno, CA and Ceres, CA**

Schedule 10													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	$229.50	$387.75	$587.50	--	--	--	--		--	--	--	--	--
Length (feet)	10	10	10	--	--	--	--		--	--	--	--	--
Price/Foot ($)	$22.95	$38.78	$58.75	--	--	--	--		--	--	--	--	--

Supplier: Stockton Pipe and & Supply Inc (http://www.stocktonpipe.net) **Location: Stockton, CA**

Note: Sizes over 12" Diameter need to be ordered from Mill													
0.109" thickness tube or Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	--	--	--	--	--	$700.00	$840.00	--	--	--	--	--	$3,159.60
Length (feet)	--	--	--	--	--	20	20	--	--	--	--	--	20
Price/Foot ($)	--	--	--	--	--	$35.00	$42.00	--	--	--	--	--	$157.98

Supplier: Valley Iron Inc (http://www.stocktonpipe.net) **Location: Fresno, CA**

Note: Sch 10 T-304 20'													
Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Length (feet)	--	--	20	20	20	20	--	--	--	--	--	--	--
Price/Foot ($)	--	--	$10.75	$16.90	$26.00	$33.90	--	--	--	--	--	--	--

Supplier: Del Paso Pipe & Steel Inc. (http://www.delpasopipeandsteel.com/) **Location: Sacramento, CA**

Schedule 5/10 Pipe:													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price Quote: $9/lb												--	
Estimated Price/Foot	--	--	--	--	--	--	$217.00	$250.00	$286.00	$322.00	$432.00	--	--
												--	

Supplier: Hayward Pipe & Supply Co. Inc (http://www.haywardpipe.com/) **Location: Hayward, CA**

Note: large diamter pipe ships from Texas, FREIGHT NOT QUOTED - Additional Shipping Costs apply													
Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	--	--	--	--	--	--	$1,540.00	$2,268.00	$2,940.00	$3,276.00	$3,696.00	--	--
Length (feet)	--	--	--	--	--	--	20	20	20	20	20	--	--
Price/Foot ($)	--	--	--	--	--	--	$77.00	$113.40	$147.00	$163.80	$184.80	--	--

Supplier: OnlineMetals.com (http://www.onlinemetals.com/) **Location: Nearest Warehouse - Los Angeles, CA**

Schedule 10 Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	$78.28	$108.97	$160.34	$288.00	$520.00	--	--	--	--	--	--	--	--
Length (feet)	8	8	8	8	8	--	--	--	--	--	--	--	--
Price/Foot ($)	$9.79	$13.62	$20.04	$36.00	$65.00	--	--	--	--	--	--	--	--
Weldeds Stainless Tube 304/304L (2" OD, 0.12" Wall; 3" OD, 0.12" Wall; 6", 0.12")													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	$109.86	$321.34	--	$628.16	--	--	--	--	--	--	--	--	--
Length (feet)	8	8	--	8	--	--	--	--	--	--	--	--	--
Price/Foot ($)	$13.73	$40.17	--	$78.52	--	--	--	--	--	--	--	--	--

Supplier: Lone Star Supply Co **Location: Dickinson, TX**

Note: Additional shipping costs													
Schedule 10 Welded Pipe													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price/Foot ($)	--	--	$16.45	$19.60	$21.50	$30.50	$39.00	--	--	$81.25	--	--	$230.00
												--	

Supplier: Global Technology and Engineering **Location: Excelsior Springs, MO**

Note: Additional shipping Costs													
11 Gauge Tubing													
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price ($)	--	--	$226.58	$487.40	--	--	--	--	--	--	--	--	--
Length (feet)	--	--	7	7	--	--	--	--	--	--	--	--	--
Price/Foot ($)	--	--	$32.37	$69.63	--	--	--	--	--	--	--	--	--

All suppliers	$30.85	$44.13	70%	
Only suppliers that have both 3" and 6"	$30.85	$57.26	54%	33.50034

Appendix H

E & J Gallo Winery Statewide Compliance Certification

N-1237
E&J Gallo Winery-Livingston
Compliance Certification Statement
For Federal Major Permit Modifications
Compliance with District Rule 2201, Section 4.15.2

"I certify under penalty of law that all major stationary sources (Title V facilities) operated under my control in California are compliant with all applicable air emissions limitations and standards. The facilities included in this certification statement include the E&J Gallo Winery-Fresno, the E&J Gallo Winery-Livingston, and the E&J Gallo Winery-Modesto."

05/06/14

Mr. Steve Kidd
Vice President of Operations

Date

Appendix I

Quarterly Net Emissions Change (QNEC) Calculations

Quarterly Net Emissions Change (QNEC)

The Quarterly Net Emissions Change is used to complete the emission profile screen for the District's PAS database. The QNEC shall be calculated as follows:

QNEC = PE2 - PE1, where:

QNEC = Quarterly Net Emissions Change for each emissions unit, lb/qtr
PE2 = Post Project Potential to Emit for each emissions unit, lb/qtr
PE1 = Pre-Project Potential to Emit for each emissions unit, lb/qtr

As discussed above, the PE2 will be equal to the PE1 for each of the 178 winery tanks within this project. Therefore, the QNEC will be set equal to zero and no further calculations will be required. A sample calculation for the VOC emissions from tank N-1237-490 is shown below:

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 32 lb/year ÷ 4 qtr/year
= 8 lb VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 32 lb/year ÷ 4 qtr/year
= 8 lb VOC/qtr

Quarterly NEC [QNEC]			
	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
NO_X	0	0	0
SO_X	0	0	0
PM_{10}	0	0	0
CO	0	0	0
VOC	8	8	0

Appendix J

Draft ATCs

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-490-2

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 311) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-490-2 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-491-2

ISSUANCE DATE: DRAFT

DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 312) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-492-2

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 313) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-492-2 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-493-2

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 314) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-493-2 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-494-2

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 315) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-494-2 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-495-2 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 316) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-495-2 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-496-2

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 317) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-496-2 : Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-497-2

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL STEEL WINE STORAGE TANK (TANK 318) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-497-2 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-498-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,621 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 351) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-498-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,621 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-499-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,537 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 352) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-499-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,537 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-500-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,560 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 353) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 35,560 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-501-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,494 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 354) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

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5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 35,494 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-502-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (69,409 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 701) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-502-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 69,409 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-503-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (71,771 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 702) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 71,771 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-504-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,241 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 703) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-504-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,241 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-505-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,316 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 704) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-505-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,316 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-506-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,151 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 705) WITH PRESSURE/VACUUM VALVE AND INSULATION:

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-506-3 : Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 70,151 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-507-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,260 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 706) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-507-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,260 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-508-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,240 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 707) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-508-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,240 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-509-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,322 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 708) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-509-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 70,322 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-510-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,204 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 709) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-510-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,204 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-511-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,136 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 710) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-511-3 Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,136 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-512-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,097 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 711) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-512-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,097 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-513-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,204 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 712) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-513-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,204 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-514-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,314 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 713) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-514-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,314 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-515-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,173 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 714) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-515-3 : Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,173 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-516-3

ISSUANCE DATE: DRAFT

DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,179 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 715) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-516-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,179 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-517-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,090 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 716) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-517-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,090 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-518-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,185 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1401) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-518-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,185 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-519-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,467 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1402) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-519-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,467 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-520-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,400 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1403) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-520-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,400 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-521-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,475 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1404) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-521-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,475 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-522-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,400 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1405) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-522-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,400 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-523-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,337 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1406) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-523-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 105,337 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-524-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,582 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1407) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-524-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,582 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-525-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,480 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1408) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-525-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,480 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-526-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,444 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1409) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,444 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-527-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,397 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1410) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-527-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,397 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-528-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,473 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1411) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-528-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,473 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-529-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,529 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1412) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-529-3 Jun 13 2016 8:22AM – BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,529 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-530-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,519 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1413) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-530-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,519 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 35,494 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 121.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-502-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (69,409 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 701) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-502-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 69,409 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-503-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (71,771 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 702) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 71,771 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-504-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,241 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 703) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-504-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,241 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-505-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,316 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 704) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-505-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,316 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-506-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,151 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 705) WITH PRESSURE/VACUUM VALVE AND INSULATION:

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-506-3 : Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 70,151 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-507-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,260 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 706) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-507-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,260 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-508-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,240 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 707) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-508-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,240 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-509-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,322 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 708) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-509-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 70,322 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-510-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,204 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 709) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-510-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,204 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-511-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,136 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 710) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-511-3 Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,136 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-512-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,097 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 711) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-512-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,097 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-513-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,204 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 712) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-513-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,204 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-514-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,314 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 713) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-514-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,314 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-515-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,173 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 714) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-515-3 : Jun 13 2016 8:22AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,173 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-516-3

ISSUANCE DATE: DRAFT

DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,179 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 715) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-516-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,179 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-517-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 70,000 GALLON NOMINAL (70,090 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 716) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-517-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 70,090 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 242.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-518-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,185 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1401) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-518-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,185 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-519-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,467 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1402) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-519-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,467 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-520-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,400 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1403) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-520-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,400 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-521-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,475 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1404) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-521-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,475 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-522-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,400 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1405) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-522-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,400 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-523-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,337 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1406) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-523-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 105,337 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-524-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,582 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1407) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-524-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,582 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-525-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,480 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1408) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-525-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,480 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-526-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,444 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1409) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,444 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-527-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,397 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1410) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-527-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,397 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-528-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,473 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1411) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-528-3 Jun 13 2016 8:22AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,473 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-529-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,529 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1412) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-529-3 Jun 13 2016 8:22AM – BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,529 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-530-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,519 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1413) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-530-3 Jun 13 2016 8:22AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,519 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-531-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,487 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1414) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-531-3 Jun 13 2010 8 23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,487 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-532-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,617 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1415) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-532-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,617 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-533-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL (105,452 GALLON GAUGE) STEEL WINE FERMENTATION AND STORAGE TANK (TANK 1416) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-533-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 105,452 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 363.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-534-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,381 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2101) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-534-3 Jun 13 2016 8:23AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,381 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-535-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,552 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2102) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-535-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,552 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-536-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,057 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2103) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-536-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,057 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-537-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,060 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2104) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-537-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,060 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-538-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,521 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2105) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-538-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,521 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-539-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,411 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2106) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-539-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,411 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-540-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,998 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2107) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-540-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,998 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-541-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,001 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2108) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-541-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,001 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-542-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,533 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2109) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-542-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,533 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-543-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,475 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2110) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-543-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,475 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-544-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,173 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2111) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-544-3 Jun 13 2016 8:23AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,173 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-545-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,467 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2112) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-545-3 Jun 13 2016 8:23AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,467 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-546-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,969 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2113) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-546-3 : Jun 13 2016 8:23AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,969 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-547-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,116 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2114) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-547-3 Jun 13 2016 6:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,116 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-548-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,116 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2115) WITH PRESSURE/VACUUM VALVE AND INSULATION: ANNUAL VOC EMISSIONS FROM WINE FERMENTATION IN THIS TANK, CALCULATED ON A ROLLING 12-MONTH BASIS, SHALL BE DETERMINED BY THE FOLLOWING EQUATION:

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 215,116 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-549-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL (215,056 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2116) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-549-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,056 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 743.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-550-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (366,253 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3201) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-550-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 366,253 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-551-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (364,297 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3202) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-551-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 364,297 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-552-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (361,944 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3203) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-552-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 361,944 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-553-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (366,028 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3204) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-553-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 366,028 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-554-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (366,239 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3205) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 366,239 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-555-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (363,823 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3206) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-555-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 363,823 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-556-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (359,494 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3207) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 359,494 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-557-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (365,883 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3208) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-557-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 365,883 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-558-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (363,506 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3209) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-558-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 363,506 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-559-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (364,454 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3210) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-559-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 364,454 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-560-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (367,931 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3211) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-560-3 Jun 13 2016 8:23AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 367,931 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-561-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (366,267 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3212) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-561-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 366,267 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-562-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (365,018 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3213) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 365,018 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-563-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (361,289 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3214) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-563-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 361,289 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-564-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (364,679 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3215) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-564-3 Jun 13 2016 8:23AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The maximum wine storage throughput in this tank shall not exceed 364,679 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit
17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-565-3 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (361,209 GALLON GAUGE) STEEL RED AND WHITE WINE FERMENTATION AND STORAGE TANK (TANK 3216) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-565-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 361,209 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 3.46 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,211.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 6.2 lb per 1000 gallons x annual red wine production (in gallons) + 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. All wine fermented in this tank shall be subject to the fermentation tank emission reduction measures of District Rule 4694 with actual production in this tank included in the minimum facility-wide fermentation emission reduction of 35% pursuant to District Rule 4694. [District Rule 2201] Federally Enforceable Through Title V Permit

17. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

20. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

23. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

24. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-568-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 640,000 GALLON NOMINAL (647,701 GALLON GAUGE) STEEL WINE STORAGE TANK (TANK 6203) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-568-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 640,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-569-3

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 640,000 GALLON NOMINAL (647,729 GALLON GAUGE) STEEL WINE STORAGE TANK (TANK 6204) WITH PRESSURE/VACUUM VALVE AND INSULATION: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-569-3 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 640,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-609-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-610-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-610-1 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-611-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-612-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-612-1 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-613-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-613-1 Jun 13 2016 8:23AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit
12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit
16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-614-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-614-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-615-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-615-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

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13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-616-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-616-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

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7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-617-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-617-1 Jun 13 2016 8:24AM – BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-618-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-619-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-619-1 : Jun 13 2016 9:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-620-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-620-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-621-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-621-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-622-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-623-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-623-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-624-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-624-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-625-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-626-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-626-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-627-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-628-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-628-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

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13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-629-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-630-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-630-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-631-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-631-1 Jun 13 2016 8:24AM -- BROWND : Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-632-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-633-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-633-1 Jun 13 2016 8:24AM – BROWND : Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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Air Pollution Control District

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LOCATION: 18000 W RIVER RD
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CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

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17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-637-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-638-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-638-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-639-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-639-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-640-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-640-1 Jun 10 2016 8:24AM -- BROWND Joint Inspection NOT Required

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6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-641-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

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5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-642-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

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5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-643-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-643-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-644-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 105,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-644-1 Jun 13 2016 8:24AM -- BROWND : Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-645-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 2117) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-646-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

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5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-647-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-647-1 Jun 13 2016 8:24AM – BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-648-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
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LOCATION: 18000 W RIVER RD
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EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

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13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

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15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-649-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-649-1 Jun 13 2016 8:24AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-650-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-650-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-651-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
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EQUIPMENT DESCRIPTION:
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CONDITIONS

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-651-1 Jun 13 2016 8 24AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

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8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

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12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

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17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

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20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

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PERMIT NO: N-1237-652-1

ISSUANCE DATE: DRAFT

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LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-653-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

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5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-654-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-654-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

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18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

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PERMIT NO: N-1237-655-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
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LOCATION: 18000 W RIVER RD
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Arnaud Marjollet, Director of Permit Services

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6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-656-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-656-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-657-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-658-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-658-1 Jun 13 2016 8:24AM -- BROWND Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

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8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

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12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

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17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-659-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-659-1 : Jun 13 2016 8:24AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-660-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL, INSULATED, STEEL ENCLOSED TOP, WHITE WINE FERMENTATION AND WINE STORAGE TANK EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-660-1 Jun 13 2016 8:25AM -- BROWND : Joint Inspection NOT Required

5. When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 degrees Fahrenheit, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The daily VOC emissions for fermentation operations in this tank shall not exceed 1.62 lb/day per 1,000 gallons of nominal tank capacity. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The daily VOC emissions from wine fermentation in this tank shall not exceed 348.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month total basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

13. Annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall be determined by the following equation: E = 2.5 lb per 1000 gallons x annual white wine production (in gallons). [District Rule 2201] Federally Enforceable Through Title V Permit

14. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

16. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from the wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The combined VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

17. When this tank is used for wine storage, the permittee shall record, on a weekly basis, the total gallons of wine stored in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

18. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

20. The permittee shall maintain the following records: red wine and white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury; the volume and ethanol concentration of each wine movement; the calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

21. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

22. Records shall be maintained that demonstrate that date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

23. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-662-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 319) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-663-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 320) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-663-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-664-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 321) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-665-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 322) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-666-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 323) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-666-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-667-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 324) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-668-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 325) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-668-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-669-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL (35,184 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 326) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-669-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-697-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 363) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-697-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-698-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 364) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-698-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

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6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-699-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 365) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-699-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-700-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 366) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-700-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-700-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-701-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (353,996 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3217) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

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5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-702-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (355,941 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3218) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

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5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-703-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3219) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-703-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-703-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-704-1

ISSUANCE DATE: DRAFT

DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3220) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-704-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-705-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (356,642 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3221) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-705-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-706-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL (356,435 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3222) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-707-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3223) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-707-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-707-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-708-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 3224) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-708-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-708-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-709-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL (646,626 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6201) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-709-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-710-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL (646,295 GALLON GAUGE) INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6202) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

7. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

8. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

10. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

11. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

12. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

13. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

14. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

15. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

16. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

18. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-711-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6203) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-711-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-711-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-712-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6204) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-712-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-712-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-713-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6205) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-713-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-713-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-714-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6206) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-714-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-714-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-715-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6207) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-715-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-715-1 Jun 13 2016 8:25AM – BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-716-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 629,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 6208) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-716-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 629,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-717-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 327) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-717-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-717-1 Jun 13 2016 8:25AM – BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-718-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 328) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-718-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-718-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-719-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 329) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-719-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-719-1 Jun 13 2016 8:25AM -- BROWNO Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-720-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 330) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-720-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-720-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-721-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 331) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-721-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-721-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-722-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 332) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-722-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-722-1 Jun 13 2016 8:25AM – BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-723-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 333) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-723-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-723-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-724-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 35,000 GALLON NOMINAL INSULATED STAINLESS STEEL WINE STORAGE TANK (TANK 334) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-724-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-724-1 Jun 13 2016 8:25AM – BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 35,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-764-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2133) WITH PRESSURE/VACUUM VALVE, OR EQUIVALENT: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-764-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-765-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2134) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-765-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-765-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-766-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2137) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-766-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-766-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-767-1 **ISSUANCE DATE:** DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 215,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 2138) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-767-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-767-1 Jun 13 2016 8:25AM – BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-768-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3225) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-768-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-768-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-769-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3226) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-769-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-769-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-770-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3227) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-770-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-770-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-771-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3228) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-771-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-771-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-772-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3229) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-772-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-772-1 Jun 13 2016 8:25AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-773-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3230) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-773-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

N-1237-773-1 Jun 13 2016 8:25AM – BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-774-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3231) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-774-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-774-1 Jun 13 2016 8:26AM -- BROWND Joint Inspection NOT Required

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

15. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

16. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201] Federally Enforceable Through Title V Permit

17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-775-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
18000 W RIVER RD
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:
MODIFICATION OF 350,000 GALLON NOMINAL INSULATED STAINLESS STEEL RED AND WHITE WINE STORAGE TANK (TANK 3232) WITH PRESSURE/VACUUM VALVE: ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT OF 191,260 LB/YEAR FROM 178 TANKS IN 2012-2016 EASTSIDE CELLAR SPECIFIC LIMITING CONDITION (SLC)

CONDITIONS

1. Authority to Construct (ATC) N-1237-775-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
4. For the purposes of this permit, the 2012-2016 Eastside Cellar Tank SLC shall consist of the following 178 winery tank permits: N-1237-490 through '-565; '-568; '-569; '-609 through '-660; '-662 through '-669; '-697 through '-724; and '-764 through '-775. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

7. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit

8. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

9. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

10. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2012-2016 Eastside Cellar Tank SLC, calculated on a rolling 12-month basis, shall not exceed 191,260 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

11. Total annual VOC emissions from wine storage operations shall be determined either as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit; or as the emissions for total annual wine movements and a single storage emissions factor, calculated using the equation(s) specified within this permit, based on the average ethanol content of the total annual wine movements. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation: EF = a * P^2 + b*P + c; where EF is the VOC emission factor in pounds of VOC per 1,000 gallons of wine throughput; P is the volume percent ethanol of the wine being transferred; a = -0.38194; b = 0.97917; and c = 0. [District Rule 2201] Federally Enforceable Through Title V Permit

13. On a monthly basis, the permittee shall calculate and record the combined VOC emissions from all wine fermentation and storage operations, in pounds, from the tanks within the 2012-2016 Eastside Cellar Tank SLC for the rolling 12-month period, including calculation methods and parameters used. The VOC emissions shall be calculated by summing the VOC emissions from the previous 12 months for each tank. [District Rule 2201] Federally Enforceable Through Title V Permit

14. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit

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17. If the emissions or ethanol content calculated for any rolling 12-month period exceeds the annual emissions or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the annual emissions, throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions, throughput and ethanol content are below the annual emissions, throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

18. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

19. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, and 4694] Federally Enforceable Through Title V Permit

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