San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

MAY 16 2017

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

Re: Notice of Preliminary Decision - Authority to Construct
Facility Number: N-1237
Project Number: N-1162686

Dear Mr. Martin:

Enclosed for your review and comment is the District's analysis of E & J Gallo Winery's application for an Authority to Construct for the modification of 95 wine storage tanks to add red and white wine fermentation service and establish a combined annual volatile organic compound (VOC) emission limit for 46 of the 95 tanks, located at 18000 W. River Road, Livingston, CA.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and 45-day EPA notice comment periods, the District intends to issue the Authority to Construct. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Dustin Brown of Permit Services at (559) 230-5932.

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:ddb

Enclosures

cc: Tung Le, CARB (w/ enclosure) via email
cc: Gerardo C. Rios, EPA (w/ enclosure) via email
cc: Kim Burns, E & J Gallo Winery (w/enclosure) via email

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

Modification of 95 Winery Storage Tanks to Add Fermentation Service and Establish a VOC SLC for 46 of the 95 tanks

Facility Name:	E & J Gallo Winery	Date:	April 19, 2017
Mailing Address:	18000 W. River Road	Engineer:	Dustin Brown
	Livingston, CA 95334	Lead Engineer:	Jerry Sandhu
Contact Person:	Dan Martin		
Telephone:	(209) 394-6211		
Email:	dan.martin@ejgallo.com		
Application #'s:	N-1237-788-1 through '-882-1		
Project #:	N-1162286		
Deemed Complete:	March 6, 2017		

I. PROPOSAL

E & J Gallo Winery has requested Authority to Construct (ATC) permits to modify 95 winery storage tanks to add the ability for these tanks to ferment red and white wine (current valid ATCs included in Appendix A).

In addition to modifying these 95 wine storage tanks to add fermentation service, E & J Gallo Winery has proposed to establish a combined specific limiting condition (SLC) for VOC emissions for all wine fermentation and storage operations from 46 of the 95 tanks. The 46 tanks that will make up the new SLC in this project will consist of the following: eight 85,000 gallon tanks (ATCs N-1237-796-1 through '-803-1), twelve 105,000 gallon tanks (ATCs N-1237-816-1 through '-827-1), sixteen 215,000 gallon tanks (ATCs N-1237-837-1 through '-852-1), four 350,000 gallon tanks (ATCs N-1237-861-1 through '-864-1), four 430,000 gallon tanks (ATCs N-1237-865-1 through '-868-1), and two 640,000 gallon tanks (ATCs N-1237-881-1 and '-882-1). Per E & J Gallo Winery's request, the 46 tank SLC will be named the "2017 Eastside Construction SLC #2" and the SLC VOC limit will be set equal to 79,802 lb/year.

The 95 wine storage tanks being modified in this project were permitted as new tanks under ATC project N-1162285 (ATCs N-1237-788-0 through '-882-0) 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 condition will be listed on each of these ATC permits to assure continued compliance (sample condition shown for unit N-1237-788-0):

- ATC N-1237-788-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [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, Section 3.20 and 3.29, and can be processed with a Certificate of Conformity (COC). But the facility has not requested that this project be processed in that manner; therefore, E & J Gallo Winery will be required to submit a Title V significant modification application and receive a revised permit prior to operating under the revised provisions of the ATCs issued with this project.

II. APPLICABLE RULES

District Rule 2201 New and Modified Stationary Source Review Rule (2/18/16)
District Rule 2410 Prevention of Significant Deterioration (6/16/11)
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 95 wine storage tanks. A summary of the existing equipment descriptions for each of the 95 wine storage tanks can be found in Appendix B.

Proposed Modifications:

Modify 95 wine storage tanks to add the ability for each tank to perform red and white fermentation service. In addition, create a VOC SLC for all wine fermentation and storage operations from 46 of the 95 tanks. Sample ATC equipment descriptions for a tank that will be included in the new SLC (N-1237-796-1) and for a tank that will not be included in the SLC (N-1237-788-1) are shown below:

49 Tanks not in SLC:

N-1237-788-1: MODIFICATION OF 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

46 Tanks in SLC:

N-1237-796-1: MODIFICATION OF 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 A) EQUIPPED WITH INSULATION .AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

Post Project Equipment Descriptions:

The proposed project involves the addition of red and white wine fermentation service to these existing wine storage tanks and the creation of a VOC SLC for 46 of the 95 tanks. The proposed project will not result in any physical changes to the winery tanks themselves. Therefore, the only change to the pre-project equipment descriptions (see Appendix B) for each tank will be the addition of red and white wine fermentation service. A sample permit equipment description for unit N-1237-788 is shown below:

N-1237-788-1: 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK 50 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

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.
- VOC is the only pollutant emitted from wine fermentation and storage tank operations.
- Winery tanks generally consist of two emissions units; 1) a fermentation tank emissions unit and 2) a wine storage tank emissions unit.
- Prior to this project, all 95 tanks are authorized for wine storage service only. After this project, all 95 tanks will be authorized for red and white wine fermentation and wine storage service.
- After this project, a new VOC SLC will be created for all wine fermentation and storage operations from 46 of the 95 tanks within this project. The new SLC will consist of the following units: N-1237-796-1 through '-803-1, N-1237-816-1 through '-827-1, N-1237-837-1 through '-852-1, N-1237-861-1 through '-864-1, N-1237-865-1 through '-868-1, N-1237-881-1 and '-882-1. The total annual VOC emissions from all wine fermentation and storage operations from this group of 46 tanks shall not exceed 79,802 pounds per year (proposed by the applicant).
- E & J Gallo Winery is proposing to incorporate 46 of the existing storage tank emission units in the new 2017 Eastside Construction VOC SLC #2; therefore, this project will be considered a modification under Rule 2201 to these 46 storage tank emission units.
- E & J Gallo Winery is not proposing to include the remaining 49 storage tank emission units in an SLC or change the wine storage emission factors or throughput rates of these existing tanks. Therefore, this project will not be considered a modification under Rule 2201 to these 49 storage tank emission units.

Fermentation Operations:

- The post-project maximum daily fermentation throughput rate for each tank will be established using a worst case of one tank turnover of nominal tank capacity per day. The post-project annual fermentation throughput rates were provided by the applicant for each group of tank sizes. The fermentation throughput rates are summarized in the table below:

Permits	Nominal Tank Size (gallons)	Daily Fermentation Throughput, Each Tank (gal/day)	Annual Fermentation Throughput, Each Tank (gal/year)
N-1237-788 through '-795	50,000	50,000	135,000
N-1237-796 through '-815	85,000	85,000	229,500
N-1237-816 through '-836	105,000	105,000	283,500
N-1237-837 through '-860	215,000	215,000	580,500
N-1237-861 through '-864	350,000	350,000	945,000
N-1237-865 through '-880	430,000	430,000	1,161,000
N-1237-881 and '-882	640,000	640,000	1,728,000

Storage Operations:

- The average ethanol content of the wine stored in each of the 95 tanks will be set at 15% (current permit limit, no proposed changes 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.
- The pre-project daily and annual wine storage throughput rates for each grouping of tank sizes was taken from the application review performed under project N-1162285. The applicant is not proposing to modify the wine storage throughput rates for any of these tanks as a part of this project. Therefore, the wine storage throughput rates will be as follows:

Permits	Nominal Tank Size (gallons)	Daily Storage Throughput, Each Tank (gal/day)	Annual Storage Throughput, Each Tank (gal/year)
N-1237-788 through '-795	50,000	50,000	500,000
N-1237-796 through '-815	85,000	85,000	850,000
N-1237-816 through '-836	105,000	105,000	1,050,000
N-1237-837 through '-860	215,000	215,000	2,150,000
N-1237-861 through '-864	350,000	350,000	3,500,000
N-1237-865 through '-880	430,000	430,000	4,300,000
N-1237-881 and '-882	640,000	640,000	4,480,000

B. Emission Factors

Per District practice for establishing VOC emission factors for wine fermentation and storage tanks located in the Northern Region, the emission factors are as follows:

Wine Fermentation Tanks:

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

Wine Storage Tanks:

The daily and annual emissions from the wine stored in these tanks were previously determined using the Environmental Protection Agency's (EPA's) Tanks 4.0 program. The proposed project is not proposing to modify the daily or annual VOC emission factors from these wine storage tanks. Therefore, no further discussion is required.

For purposes of calculating actual annual emissions for the 46 wine storage tanks that will be included in the new 2017 Eastside Construction SLC #2, the annual data from District emissions modelling has been curve-fitted based on an equation of the form Ef = ap2 + bp + c, where p = vol% ethanol. The constants for the equation are as follows:

Constants for Annual Emission Factor Correlation E_f (lb-VOC/1,000 gallon) = $ap^2 + bp + c$ p = volume percentage ethanol			
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

C. Calculations

1. Pre-Project Potential to Emit (PE1)

Wine Storage Tanks:

The PE1 values for the existing wine storage tanks were taken from the application review performed under project N-1162285 and were established using the maximum wine storage throughput rates referenced above and the Tanks 4.0 program. The PE1 values are summarized for each tank grouping in the following tables.

46 Tanks in SLC:

Pre-Project Potential to Emit			
Permits	**Daily PE1, per Tank (lb/day)**	**Annual PE1, per Tank (lb/year)**	**Total Annual PE1 for Tank Group (lb/year)**
N-1237-796 through '-803 (8 tanks in SLC)	34.8	125	1,000
N-1237-816 through '-827 (12 tanks in SLC)	43.0	154	1,848
N-1237-837 through '-852 (16 tanks in SLC)	88.0	315	5,040
N-1237-861 through '-864 (4 tanks in SLC)	143.3	514	2,056
N-1237-865 through '-868 (4 tanks in SLC)	176.1	631	2,524
N-1237-881 and '-882 (2 tanks in SLC)	262.1	657	1,314
		46 Storage Tank PE1 Total:	13,782

49 Tanks Not in SLC:

Pre-Project Potential to Emit			
Permits	**Daily PE1, per Tank (lb/day)**	**Annual PE1, per Tank (lb/year)**	**Total Annual PE1 for Tank Group (lb/year)**
N-1237-788 through '-795 (8 tanks not in SLC)	20.5	73	584
N-1237-804 through '-815 (12 tanks not in SLC)	34.8	125	1,500
N-1237-828 through '-836 (9 tanks not in SLC)	43.0	154	1,386
N-1237-853 through '-860 (8 tanks not in SLC)	88.0	315	2,520
N-1237-869 through '-880 (12 tanks not in SLC)	176.1	631	7,572
		49 Storage Tank PE1 Total:	13,562

Wine Fermentation Tanks:

Since the fermentation tank emission units are new emission units in this project, PE1 = 0 for all pollutants.

2. Post-Project Potential to Emit (PE2)

Wine Storage Tanks:

The only changes associated with the wine storage tanks being modified within this project are to include 46 of the 95 tanks in the 2017 Eastside Construction SLC #2. There are no proposed changes to the operating schedule, emission factors, daily throughput rates for all 95 tanks, or the annual throughput rates for the 49 wine storage tanks not being included in the new SLC. Therefore, there will not be any changes to the daily and annual VOC emissions from these tanks and the post-project potential to emit values will be set equal to the pre-project potential to emit values listed above. The annual VOC emissions for the 46 tanks being included in the new SLC is calculated in the Total Annual PE2 section below.

Wine Fermentation Tanks:

Daily PE2:

The maximum daily VOC emissions from these new fermentation tanks will be determined using the throughput rates listed above and the red wine emission factor as that represents the highest emission factor for fermentation operations.

Daily PE2 = Throughput Rate (gal/day) x Red Wine EF (lb-VOC/1,000 gallons)

Daily Post-Project Potential to Emit				
Permits	**Max Daily Throughput, per Tank (gal/day)**	**Red Wine Emission Factor (lb-VOC/1,000 gal)**	**Daily PE2, per Tank (lb/day)**	**Total Daily PE2, for Tank Group (lb/day)**
N-1237-788 through '-795 (8 tanks in group)	50,000	3.46	173.0	1,384.0
N-1237-796 through '-815 (20 tanks in group)	85,000	3.46	294.1	5,882.0
N-1237-816 through '-836 (21 tanks in group)	105,000	3.46	363.3	7,629.3
N-1237-837 through '-860 (24 tanks in group)	215,000	3.46	743.9	17,853.6
N-1237-861 through '-864 (4 tanks in group)	350,000	3.46	1,211.0	4,844.0
N-1237-865 through '-880 (16 tanks in group)	430,000	3.46	1,487.8	23,804.8
N-1237-881 and '-882 (2 tanks in group)	640,000	3.46	2,214.4	4,428.8

Annual PE (PE2):

The applicant is proposing to establish a combined annual VOC limit for all of the wine fermentation and storage operations on 46 of the 95 tanks being modified within this project. They are proposing that the combined annual total VOC emissions from these 46 winery tanks be set equal to the sum of their annual potentials to emit, based on the throughput rates referenced above. For these 46 tanks, each individual tank will not contain an annual throughput limit or VOC emission limit, only the annual SLC VOC limit. For the other 49 tanks that will not be in the SLC, the annual potential to emit for each tank will be established based on the throughput rates referenced above. Therefore, the post project annual VOC emissions will be set equal to the values listed below.

46 Tanks in SLC:

Annual Fermentation Post-Project Potential to Emit				
Permits	**Max Annual Throughput, per Tank (gal/year)**	**White Wine Emission Factor (lb-VOC/1,000 gal)**	**Annual PE2, per Tank (lb/year)**	**Annual PE2, for Tank Group (lb/year)**
N-1237-796 through '-803 (8 tanks in SLC)	229,500	2.5	574	4,592
N-1237-816 through '-827 (12 tanks in SLC)	283,500	2.5	709	8,508
N-1237-837 through '-852 (16 tanks in SLC)	580,500	2.5	1,451	23,216
N-1237-861 through '-864 (4 tanks in SLC)	945,000	2.5	2,363	9,452
N-1237-865 through '-868 (4 tanks in SLC)	1,161,000	2.5	2,903	11,612
N-1237-881 and '-882 (2 tanks in SLC)	1,728,000	2.5	4,320	8,640
			Fermentation Tank PE2 Total (SLC):	66,020

49 Tanks Not in SLC:

Annual Fermentation Post-Project Potential to Emit				
Permits	**Max Annual Throughput, per Tank (gal/year)**	**White Wine Emission Factor (lb-VOC/1,000 gal)**	**Annual PE2, per Tank (lb/year)**	**Annual PE2, for Tank Group (lb/year)**
N-1237-788 through '-795 (8 tanks not in SLC)	135,000	2.5	338	2,704
N-1237-804 through '-815 (12 tanks not in SLC)	229,500	2.5	574	6,888
N-1237-828 through '-836 (9 tanks not in SLC)	283,500	2.5	709	6,381
N-1237-853 through '-860 (8 tanks not in SLC)	580,500	2.5	1,451	11,608
N-1237-869 through '-880 (12 tanks not in SLC)	1,161,000	2.5	2,903	34,836
			Fermentation Tank PE2 Total (Non-SLC):	62,417

Total PE2 from Wine Fermentation and Storage Tanks:

Total Daily PE2:

For typical winery operations, a single tank will either ferment wine or store wine in any given day. Therefore, the maximum daily VOC emissions from these wine fermentation and storage tanks will be established using the worst case daily VOC emissions from either fermentation or storage operations.

Total Daily Post-Project Potential to Emit				
Permits	**Daily $PE2_{Storage}$ (lb/day)**	**Daily $PE2_{Fermentation}$ (lb/day)**	**Maximum Daily PE2, per Tank (lb/day)**	**Total Maximum Daily PE2, for Tank Group (lb/day)**
N-1237-788 through '-795 (8 tanks in group)	20.5	173.0	173.0	1,384.0
N-1237-796 through '-815 (20 tanks in group)	34.8	294.1	294.1	5,882.0
N-1237-816 through '-836 (21 tanks in group)	43.0	363.3	363.3	7,629.3
N-1237-837 through '-860 (24 tanks in group)	88.0	743.9	743.9	17,853.6
N-1237-861 through '-864 (4 tanks in group)	143.3	1,211.0	1,211.0	4,844.0
N-1237-865 through '-880 (16 tanks in group)	176.1	1,487.8	1,487.8	23,804.8
N-1237-881 and '-882 (2 tanks in group)	262.1	2,214.4	2,214.4	4,428.8

Total Annual PE (PE2):

The maximum annual VOC emissions from these wine fermentation and storage tanks will be determined using the sum of the annual fermentation and storage VOC emission rates listed above.

Total Annual PE2 = Annual $PE2_{Stroage}$ (lb/year) + Annual $PE2_{Fermentation}$ (lb/year)

46 Tanks in SLC:

Total Annual Post-Project Potential to Emit, Tanks in SLC				
Permits	**Annual $PE2_{Storage}$, Per Tank (lb/year)**	**Annual $PE2_{Fermentation}$, Per Tank (lb/year)**	**Total Annual PE2, per Tank (lb/year)**	**Total Annual PE2, for Tank Group (lb/year)**
N-1237-796 through '-803 (8 tanks in SLC)	125	574	699	5,592
N-1237-816 through '-827 (12 tanks in SLC)	154	709	863	10,356
N-1237-837 through '-852 (16 tanks in SLC)	315	1,451	1,766	28,256
N-1237-861 through '-864 (4 tanks in SLC)	514	2,363	2,877	11,508
N-1237-865 through '-868 (4 tanks in SLC)	631	2,903	3,534	14,136
N-1237-881 and '-882 (2 tanks in SLC)	657	4,320	4,977	9,954
			PE2 Total (SLC Total):	79,802

49 Tanks Not in SLC:

Total Annual Post-Project Potential to Emit, Tanks not in SLC				
Permits	**Annual $PE2_{Storage}$, Per Tank (lb/year)**	**Annual $PE2_{Fermentation}$, Per Tank (lb/year)**	**Total Annual PE2, per Tank (lb/year)**	**Total Annual PE2, for Tank Group (lb/year)**
N-1237-788 through '-795 (8 tanks not in SLC)	73	338	411	3,288
N-1237-804 through '-815 (12 tanks not in SLC)	125	574	699	8,388
N-1237-828 through '-836 (9 tanks not in SLC)	154	709	863	7,767
N-1237-853 through '-860 (8 tanks not in SLC)	315	1,451	1,766	14,128
N-1237-869 through '-880 (12 tanks not in SLC)	631	2,903	3,534	42,408
			PE2 Total (Non-SLC Total):	75,979

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
N-1162285	Install 95 wine storage tanks	27,344
Total		**849,248**

As indicated above, the SSPE for VOC emissions solely from their winery tank related operations prior to the proposed project is calculated to be 849,248 pounds per year, equivalent to 424.6 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	424.6
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.

Wine Storage Tanks (46 Tanks in SLC only):

Rule 2201 defines a Fully-Offset Emissions Unit as "an emissions unit for which offsets have been provided for the unit's full potential to emit." Under project N-1162285, E & J Gallo Winery was required to provide offsets for the full VOC potential to emit of these wine storage tanks. Therefore, each of the wine storage tanks being modified within this project can be considered Fully-Offset Emissions Units and the BE can be set equal to each unit's PE1. The BE for the 46 wine storage tanks being modified within this project is summarized in the following table:

Baseline Emissions			
Permits	**Annual VOC PE1, per Tank (lb/year)**	**VOC BE, per Tank (lb/year)**	**Total Annual VOC BE for Tank Group (lb/year)**
N-1237-796 through '-803 (8 tanks in SLC)	125	125	1,000
N-1237-816 through '-827 (12 tanks in SLC)	154	154	1,848
N-1237-837 through '-852 (16 tanks in SLC)	315	315	5,040
N-1237-861 through '-864 (4 tanks in SLC)	514	514	2,056
N-1237-865 through '-868 (4 tanks in SLC)	631	631	2,524
N-1237-881 and '-882 (2 tanks in SLC)	657	657	1,314
46 Storage Tank VOC BE Total:			13,782

Wine Fermentation Tanks:

Since these wine fermentation tank emission units are all new emissions units in this project, BE = PE1 = 0 for all pollutants for each unit.

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[(1)] 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	142,219	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 = the BAE is the actual annual emissions averaged over the baseline period for every unit

[(1)] There is no modification to wine storage emission units associated with the 49 wine tanks that are not being included in the new VOC SLC for the purposes of this project. Therefore, the VOC emissions from the storage operations of these 49 tanks are not being included in the project PE2 for the purposes of this SB288 Major Modification calculation.

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 from the initial construction and operation shall be set equal to zero, and thereafter, for all other purposes, 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 provided by E & J Gallo Winery for this project, construction of the 46 wine storage tanks being included in the new VOC SLC has not yet been completed. Therefore, each of these modified wine storage tanks in this project has been in operation for less than two years and since this project is not authorizing the initial construction of these tanks, the BAE will be set equal to each unit's pre-project potential to emit.

46 Tanks in SLC

As shown above, these fermentation tanks are all new emission units; therefore, the fermentation BAE will be set equal to zero. In addition, as discussed above, the BAE will be set equal to the PE1 values referenced above for the wine storage tank emission units.

$NEI_{SLC\ Tanks}$ = [ΣFermentation $PE2_{46\ Tanks}$ – ΣFermentation $BAE_{46\ Tanks}$] +
[ΣStorage $PE2_{46\ Tanks}$ – ΣStorage $BAE_{46\ Tanks}$]
$NEI_{SLC\ Tanks}$ = [66,020 lb-VOC/year – 0 lb-VOC/year] +
13,782 lb-VOC/year – 13,782 lb-VOC/year]

$NEI_{SLC\ Tanks}$ = 66,020 lb-VOC/year

49 Tanks Not in SLC

As shown above, these fermentation tanks are all new emission units; therefore, the fermentation BAE will be set equal to zero. In addition, since the storage tank emission units for these tanks are not being modified as a part of this project, the VOC emissions from storage operations are not being included in the SB288 major modification calculations.

$NEI_{Non\text{-}SLC\ Tanks}$ = ΣFermentation $PE2_{49\ Tanks}$ – ΣFermentation $BAE_{49\ Tanks}$
$NEI_{Non\text{-}SLC\ Tanks}$ = 62,417 lb-VOC/year – 0 lb-VOC/year

$NEI_{Non\text{-}SLC\ Tanks}$ = 62,417 lb-VOC/year

Total NEI

Total NEI = $NEI_{SLC\ Tanks}$ + $NEI_{Non\text{-}SLC\ Tanks}$
Total NEI = 66,020 lb-VOC/year + 62,417 lb-VOC/year

Total NEI = 128,437 lb-VOC/year

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	142,219	13,782	128,437	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

46 Tanks in SLC

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 46 of these tanks up to their full potential to emit. Therefore, the PAE will be set equal to the post project SLC value calculated above, 79,802 lb-VOC/year.

As shown in Section VII.C.7 above, the BAE for these tanks can be set equal to each tank's PE1.

In addition, the construction of these 46 tanks being modified within this project has not been completed and they have not been in operation yet. Therefore, the wine storage tanks do not have any unused baseline capacity and the UBC will be set equal to zero for the purposes of this Federal Major Modification calculation.

Emission Increase$_{SLC\ Tanks}$ = PAE$_{46\ Tanks}$ – PE1$_{46\ Tanks}$ - UBC
Emission Increase$_{SLC\ Tanks}$ = 79,802 lb-VOC/year – 13,782 lb/year – 0 lb-VOC/year

Emission Increase$_{SLC\ Tanks}$ = 66,020 lb-VOC/year

49 Tanks Not in SLC

As discussed above, for these 49 tanks, the wine storage tank emission units are not considered to be modified as a part of this project. Therefore, the VOC emissions from wine storage operations from these tanks will not be included in the Federal Major Modification calculations.

For new emissions units, the increase in emissions is equal to the PE2 for each new unit included in this project.

Emission Increase$_{Non\text{-}SLC\ Tanks}$ = PAE$_{49\ Tanks}$ – BAE$_{49\ Tanks}$
Emission Increase$_{Non\text{-}SLC\ Tanks}$ = 62,417 lb-VOC/year – 0 lb-VOC/year

Emission Increase$_{Non\text{-}SLC\ Tanks}$ = 62,417 lb-VOC/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*	66,020 + 62,417 = 128,437	0	Yes
PM_{10}	0	30,000	No
$PM_{2.5}$	0	20,000	No
SO_x	0	80,000	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 there is an increase in VOC emissions, this project constitutes a Federal Major Modification. Federal Offset quantities are calculated below.

Federal Offset Quantities:

The Federal offset quantity is only calculated only for the pollutants for which the project is a Federal Major Modification. The Federal offset quantity is the sum of the annual emission changes for all new and modified emission units in a project calculated as the potential to emit after the modification (PE2) minus the actual emissions (AE) during the baseline period for each emission unit times the applicable federal offset ratio. As shown above, this project triggers a Federal Major Modification for VOC emissions. Therefore, the federal offsets required for VOC emissions for this project are as follows:

Federal Offset Quantity = PE2 – AE

Where: PE2 = Post Project Potential to Emit
AE = Actual Emissions

For the 46 tanks included in the SLC, the PE2 will be set equal to the post project SLC value calculated above, 79,802 lb-VOC/year. For the remaining 49 tanks, since the wine storage tank emission units are not being modified and included in this calculation, the PE2 values will be set equal to the fermentation PE2 values calculated above.

In accordance with the definitions in 40 CFR Part 51, Subpart I, *Review of New Sources and Modifications*, Section 165, in general, AE means the actual rate at which the emissions unit actually emitted during any consecutive 24-month period which is representative of normal source operation. However, for any unit that has not begun normal source operations, the AE shall be equal to the unit's potential to emit. As discussed above, construction of the 46 wine storage tanks being included in the new VOC SLC has not yet been completed. Therefore, since each of these modified wine storage tanks in this project has not begun normal operations, the AE will be set equal to each unit's pre-project potential to emit.

46 Tanks in SLC

$\text{Emission Increase}_{\text{SLC Tanks}} = \text{PE2}_{\text{46 Tanks}} - \text{PE1}_{\text{46 Tanks}}$
$\text{Emission Increase}_{\text{SLC Tanks}} = 79{,}802 \text{ lb-VOC/year} - 13{,}782 \text{ lb/year}$

$\text{Emission Increase}_{\text{SLC Tanks}} = 66{,}020 \text{ lb-VOC/year}$

49 Tanks Not in SLC

$\text{Emission Increase}_{\text{Non-SLC Tanks}} = \text{PE2}_{\text{49 Tanks}} - \text{AE}_{\text{49 Tanks}}$
$\text{Emission Increase}_{\text{Non-SLC Tanks}} = 62{,}417 \text{ lb-VOC/year} - 0 \text{ lb-VOC/year}$

$\text{Emission Increase}_{\text{Non-SLC Tanks}} = 62{,}417 \text{ lb-VOC/year}$

VOC **Federal Offset Ratio** **1.5**

Permit Units	Post Project Potential Emissions (lb/year)	Actual Emissions (lb/year)	Net Emissions Change (lb/yr)
N-1237-788-1 through N-1237-882-1	142,219	13,782	128,437
		Net Emission Change (lb/year):	**128,437**
		Federal Offset Quantity: (NEC * 1.5)	**192,656**

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

Rule 2410 applies to any pollutant regulated under the Clean Air Act, except those for which the District has been classified nonattainment. The pollutants which must be addressed in the PSD applicability determination for sources located in the SJV and which are emitted in this project are (see 52.21 (b) (23) definition of significant):

- NO2 (as a primary pollutant)
- SO2 (as a primary pollutant)
- CO
- PM
- PM_{10}

I. Project Location Relative to Class 1 Area

As demonstrated in the "PSD Major Source Determination" Section above, the facility was determined to be an existing PSD Major Source. Because the project is not located within 10 km (6.2 miles) 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. Project Emission Increase – Significance Determination

a. Evaluation of Calculated Post-project Potential to Emit for New or Modified Emissions Units vs PSD Significant Emission Increase Thresholds

As a screening tool, the post-project potential to emit from all new and modified units is compared to the PSD significant emission increase thresholds, and if the total potentials to emit from all new and modified units are below the applicable thresholds, no futher PSD analysis is needed.

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

As demonstrated above, because the post-project total potentials to emit from all new and modified emission units are below the PSD significant emission increase thresholds, this project is not subject to the requirements of Rule 2410 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 emissions profile in the District's permit database. Detailed QNEC calculations are included in Appendix F.

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

Wine Storage Tanks:

As discussed in Section I above, the storage tanks being modified in this project are not new emissions units. Therefore BACT for new units with PE > 2 lb/day purposes is not triggered.

Wine Fermentation Tanks:

As seen in Section VII.C.2 above, the applicant is proposing to install 95 new wine fermentation tank emission units, each with a PE greater than 2 lb/day for VOC emissions. Therefore, BACT is triggered for VOC emissions.

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

Wine Storage Tanks

46 Tanks in SLC:

AIPE calculations are performed solely to determine if BACT is required for modified emission units.

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 these wine storage tanks in this project. Therefore, the AIPE calculation can break down to the following:

AIPE = PE2 – PE1 => 0.0 lb/day

However, as also seen in Section VII.C.2 of this evaluation, the applicant is proposing to establish a combined VOC emission limit between 46 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 Section VII.C.1 above, the daily emissions from each of these 46 existing winery storage tanks is 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 these 46 existing wine storage tanks.

49 Tanks Not in SLC:

As discussed in Section I above, the proposed changes within this project are not considered NSR modifications to the existing wine storage tank emission units associated with these 49 tanks. Therefore, BACT is not applicable to these 49 wine storage tanks for the purposes of this project.

Wine Fermentation Tanks

The wine fermentation tanks in this project are not modified emissions units. Therefore BACT is not triggered for AIPE purposes.

d. SB288/Federal Major Modification

As discussed in Sections VII.C.7 above, this project does constitute an SB 288 Major Modification and a Federal 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 (i.e. wine fermentation tanks and storage tanks being included in the new SLC).

2. BACT Guideline

Fermentation Operations:

BACT Guideline 5.4.14 applies to wine fermentation tanks. E & J Gallo Winery is proposing to modify 95 existing wine storage tanks to add fermentation service (fermentation emission units) within this project. Therefore, BACT Guideline 5.4.14 is applicable to the wine fermentation tank emission units and no further discussion is required (BACT Guideline 5.4.14 included in Appendix C).

Storage Operations:

BACT Guideline 5.4.13, applies to wine storage tanks. E & J Gallo Winery is proposing to modify 46 existing wine storage tanks with this project. Therefore, BACT Guideline 5.4.13 is applicable to these wine storage tank emission units and no further discussion is required (BACT Guideline 5.4.13 included in Appendix D).

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:

Pursuant to the attached Top-Down BACT Analysis in Appendix C, since the technologically feasible options are not cost effective and pursuant to the attached Achieved-in-Practice Analysis (Attachment C1), 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 (46 Tanks in the new SLC Only):

Pursuant to the attached Top-Down BACT Analysis in Appendix D, 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:

- 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]

- 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

Therefore, offsets can be determined as follows for this project:

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

Sum of PE2 (VOC) = $PE2\ Fermentation_{All\ 95\ Tanks}$ + $PE2\ Storage_{46\ SLC\ Tanks}$
= 128,437 lb-VOC/year + 13,782 lb-VOC/year
= 142,219 lb-VOC/year
Sum of BE (VOC) = $BE\ Fermentation_{All\ 95\ Tanks}$ + $BE\ Storage_{46\ SLC\ Tanks}$
= 0 lb-VOC/year + 13,782 lb-VOC/year
= 13,782 lb-VOC/year
ICCE = 0 lb/year

VOC Offsets Required (lb/year) = ([142,219 lb/year – 13,782 lb/year] + 0) x DOR
= 128,437 lb-VOC/year x DOR

Based on the results of the calculations above, the VOC offsets required for this project are solely based on the increases in VOC emissions associated with the fermentation emissions from each tank. These fermentation tanks are subject to the fermentation emission reduction requirements of Rule 4694 and are considered to be controlled sources subject to a 35% reduction in emissions. The facility is currently performing an annual demonstration that sufficient Certified Emission Reductions (CER) are provided to meet the requirements of Rule 4694 Section 5.1. The CERs are achieved by controlling the emissions from brandy tanks and barrels at a brandy plant in Modesto via an air handling system and combustion in an RTO (regenerative thermal oxidizer). Both the Fresno location and Livingston location have CERs assigned to each facility (generated from the control of the brandy plant) to cover the uncontrolled fermentation emissions at each facility. The annual compliance emissions report demonstrates the amount of CERs assigned to each facility is at least 35% of the uncontrolled fermentation emissions at each facility. As these tanks are subject to Rule 4694 and the facility is mitigating 35% of the uncontrolled fermentation emissions each year, requiring offsets for 100% of the fermentation emissions in this project would be requiring double mitigation. Therefore, the offsets required for the fermentation emissions in this project will be reduced by 35% and calculated as follows:

Offsets Required (lb/year) = $\{[\Sigma(PE2 - BE)_{Fermentation} \times (1 - 0.35)] + \Sigma(PE2 - BE)_{Storage}\}$ x DOR

As discussed above, the BE from the fermentation tanks is zero and the BE for the storage tanks equal the storage PE1. Since there is no change in the storage emissions from the 46 tanks being modified in this project, the storage portion of the calculation above is PE2 – PE1, which equals zero. Therefore, for the purposes of this project, the amount of offsets required can be determined using the following equation:

Offsets Required (lb/year) = $\Sigma[PE2_{Fermentation} - BE_{Fermentation}] \times (1 - 0.35) \times DOR$

VOC Offsets Required for New Wine Fermentation Tanks without DOR					
Permits	Annual PE2, per Tank (lb/yr)	Annual BE, each (lb/yr)	Offsets Required, per Tank (lb/yr)	Offsets Adjustment x (1 – 0.35), per Tank (lb/year)	Offsets Required for Tank Group (lb/yr)
N-1237-788 to '-803 (8 tanks not in SLC)	338	0	338	220	1,760
N-1237-796 through '-803 (8 tanks in SLC)	699	125	574	373	2,984
N-1237-804 through '-815 (12 tanks not in SLC)	574	0	574	373	4,476
N-1237-816 through '-827 (12 tanks in SLC)	863	154	709	461	5,532
N-1237-828 through '-836 (9 tanks not in SLC)	709	0	709	461	4,149
N-1237-837 through '-852 (16 tanks in SLC)	1,766	315	1,451	943	15,088
N-1237-853 through '-860 (8 tanks not in SLC)	1,451	0	1,451	943	7,544
N-1237-861 through '-864 (4 tanks in SLC)	2,877	514	2,363	1,536	6,144
N-1237-865 through '-868 (4 tanks in SLC)	3,534	631	2,903	1,887	7,548
N-1237-869 through '-880 (12 tanks not in SLC)	2,903	0	2,903	1,887	22,644
N-1237-881 and '-882 (2 tanks in SLC)	4,977	657	4,320	2,808	5,616
				Total Offsets Required without DOR:	83,485

In accordance with Rule 2201, Section 4.8.1, the DOR for VOC offsets for projects that trigger federal major modifications shall be 1.5:1. As shown in Section VII.C.8, this project triggers a federal major modification for VOC emissions. Therefore, the DOR will be 1.5:1 and the total amount of VOC ERCs that need to be withdrawn for this project is:

VOC Offsets Required for Wine Storage Tanks with DOR				
Permits	Offsets Required, per Tank (lb/yr)	DOR	Total Offsets Required, per Tank (lb/yr)	Offsets Required for Tank Group (lb/yr)
N-1237-788 through '-795 (8 total tanks)	220	1.5	330	2,640
N-1237-796 through '-815 (20 total tanks)	373	1.5	560	11,200
N-1237-816 through '-836 (21 total tanks)	461	1.5	692	14,532
N-1237-837 through '-860 (24 total tanks)	943	1.5	1,415	33,960
N-1237-861 through '-864 (4 total tanks)	1,536	1.5	2,304	9,216
N-1237-865 through '-880 (16 total tanks)	1,887	1.5	2,831	45,296
N-1237-881 and '-882 (2 total tanks)	2,808	1.5	4,212	8,424
			Total Offsets Required with DOR:	125,268

Wine production in the San Joaquin Valley is typically a seasonal event, coinciding with the grape harvest season ("crush season") which normally occurs in the months of August through December. Fermentation is at its peak during September through October with most wine fermentation occurring within those months. Therefore, emission offsets for these fermentation operations will be required in the third and fourth quarters only.

3rd and 4th Quarter Offsets Required (lb/qtr) = (Total Offsets Required per Tank, lb-VOC/year) ÷ (2 quarters/year)

Quarterly VOC Offsets Required for Each Wine Storage Tank			
Permits	Total Offsets Required, per Tank (lb/yr)	Quarters/year	Total Offsets Required, per Tank (lb/qtr)
N-1237-788 through '-795	330	2	165
N-1237-796 through '-815	560	2	280
N-1237-816 through '-836	692	2	346
N-1237-837 through '-860	1,415	2	707.5
N-1237-861 through '-864	2,304	2	1,152
N-1237-865 through '-880	2,831	2	1,415.5
N-1237-881 and '-882	4,212	2	2,106

Therefore the appropriate quarterly emissions to be offset for each tank are as follows:

Quarterly VOC Offsets Required for Each Wine Storage Tank				
Permits	Offsets Required, per Tank (lb/1st qtr)	Offsets Required, per Tank (lb/2nd qtr)	Offsets Required, per Tank (lb/3rd qtr)	Offsets Required, per Tank (lb/4th qtr)
'-788 through '-795	0	0	165	165
'-796 through '-815	0	0	280	280
'-816 through '-836	0	0	346	346
'-837 through '-860	0	0	707	708
'-861 through '-864	0	0	1,152	1,152
'-865 through '-880	0	0	1,415	1,416
'-881 and '-882	0	0	2,106	2,106

And the total amount of offsets required for each tank group is as follows:

Quarterly VOC Offsets Required for Each Wine Storage Tank Group				
Permits	Offsets Required, Tank Group (lb/1st qtr)	Offsets Required, Tank Group (lb/2nd qtr)	Offsets. Required, Tank Group (lb/3rd qtr)	Offsets Required, Tank Group (lb/4th qtr)
N-1237-788 through '-795 (8 tanks in group)	0	0	1,320	1,320
N-1237-796 through '-815 (20 tanks in group)	0	0	5,600	5,600
N-1237-816 through '-836 (21 tanks in group)	0	0	7,266	7,266
N-1237-837 through '-860 (24 tanks in group)	0	0	16,968	16,992
N-1237-861 through '-864 (4 tanks in group)	0	0	4,608	4,608
N-1237-865 through '-880 (16 tanks in group)	0	0	22,640	22,656
N-1237-881 and '-882 (2 tanks in group)	0	0	4,212	4,212
Total	0	0	62,614	62,654

The applicant has stated that the facility plans to use their primary ERC certificate S-4744-1 to offset the increases in VOC emissions associated with this project. They have also requested to list ERC Certificates C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 as secondary certificates to offset the increases in VOC emissions associated with this project. The above certificates have available quarterly VOC credits as follows[2]:

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
ERC #S-4744-1	67,500	117,500	117,500	117,500
ERC #C-1404-1	4,409	4,405	4,252	4,131
ERC #S-4442-1	6,862	6,852	0	0
ERC #S-4727-1	31,955	31,908	31,898	31,871
ERC #S-4751-1	13,522	13,570	7,249	7,260
ERC #S-4769-1	2,761	2,761	1,087	1,083
ERC #S-4773-1	827	771	56	41
ERC #S-4780-1	16,794	16,752	4,054	2,387

As seen above, the facility has sufficient credits to fully offset the quarterly VOC emissions increases associated with this project.

Proposed Rule 2201 (offset) Conditions:

The following typical condition will be included on each ATC for each tank grouping:

N-1237-788 through '-795 (50,000 gallon fermentation tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-796 through '-815 (85,000 gallon fermentation tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-816 through '-836 (105,000 gallon fermentation tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

[2] The available credit values listed below only show the credits available from each certificate that are not currently reserved for other ATC projects in the District's permit database.

N-1237-837 through '-860 (215,000 gallon storage tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-861 through '-864 (350,000 gallon storage tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter – 1,152 lb, and fourth quarter – 1,152 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-865 through '-880 (430,000 gallon storage tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter – 1,415 lb, and fourth quarter – 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-881 and '-882 (640,000 gallon storage tanks):

- Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter – 0 lb, 2nd quarter – 0 lb, 3rd quarter – 2,106 lb, and fourth quarter – 2,106 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

All Tank ATCs:

- ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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]

- 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]

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,
d. Any project with an SSIPE of greater than 20,000 lb/year for any pollutant, and/or
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 triggers an SB 288 Major Modification and a Federal Major Modification. Therefore, public noticing for SB 288 Major Modification and Federal 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. As seen in Section VII.C.2 above, this project does include new fermentation emissions units which all have daily emissions greater than 100 lb/day for VOC emissions, therefore public noticing for PE > 100 lb/day purposes is required.

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 offset 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 affected 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. The values for SSPE1 and SSPE2 are calculated according to Rule 2201, Sections 4.9 and 4.10, respectively. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table:

Stationary Source Increase in Permitted Emissions [SSIPE] – Public Notice					
Pollutant	∑PE2 (lb/year)	∑PE1 (lb/year)	SSIPE (lb/year)	SSIPE Public Notice Threshold	Public Notice Required?
VOC	>20,000 + 128,437	>20,000	128,437	20,000 lb/year	Yes

As demonstrated above, the SSIPE for VOC was greater than 20,000 lb/year; therefore public noticing for SSIPE purposes is 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, a Federal Major Modification, an SSIPE of greater than 20,000 lb/year, and a Title V Significant Permit Modification. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB), EPA, 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:

- 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 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]

- The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/day per 1,000 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 ATC N-1237-788 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 173.0 lb/day. [District Rule 2201]

The daily wine storage throughput limit varies depending on each tank's size. Therefore, the following typical condition for ATC N-1237-788 will be listed on each of the wine storage tank ATC permits in this project to ensure compliance:

- The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201]

- 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]

46 Tanks in SLC:

- For the purposes of this permit, the 2017 Eastside Construction SLC #2 shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201]

- The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [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]

49 Tanks Not in SLC (typical conditions shown for N-1237-788-1)

- The total annual VOC emissions from wine fermentation in this tank shall not exceed 338 lb/year. [District Rule 2201]

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201]

- If the emissions, throughput, 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]

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:

- 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, 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]

- 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 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]

- 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]

46 Tanks in SLC:

- 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 2017 Eastside Construction SLC #2 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]

- 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694]

49 Tanks Not in SLC

- 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 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 E.

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 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.

The current project only involves the modification of 95 existing wine storage tanks to add red and white wine fermentation service. Since the project does not involve the installation of any new equipment, does not represent a change in the winery's total tank volume and does not result in changes to any other facet of the overall facility's operations, 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 Title I modification. As discussed above, this project triggers a Federal Major Modification which is a Title I modification. As a result, the proposed project constitutes a Significant Modification to the Title V Permit pursuant to Section 3.29.

As discussed above, these ATCs will not be issued with a Certificate of Conformity (COC). Therefore, the facility must apply to modify their Title V permit with a Significant Modification, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The following condition will be included on each ATC and will assure compliance with the requirements of Rule 2520:

- The permittee shall not implement the changes authorized in this Authority to Construct (ATC) permit until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3]

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 4101 Visible Emissions

Rule 4101 states that no person shall discharge into the atmosphere emissions of any air contaminant aggregating more than 3 minutes in any hour which is as dark as or darker than Ringelmann 1 (or 20% opacity). Visible emissions are not expected as a result of these wine fermentation and storage operations. Therefore, compliance with this rule is expected. Compliance with the requirements of this rule is assured by the following condition, currently included as condition 22 on E & J Gallo Winery's facility wide permit N-1237-0-3:

- No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101]

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-1237-0-3:

- 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:

- 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-1237-0-3) 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, 2018, 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, 2019, 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 March 1, 2017, and every year thereafter on or before March 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 each ATC 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, 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]

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:

- 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]

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-1237-0-3) 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 Mitigated 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 to modify existing permits for 95 winery storage tanks to add the ability to perform wine fermentation in each tank and to establish a VOC Specific Limiting Condition (SLC) for forty-six (46) tanks. Typically, wineries dealing with fermentation tanks are an operation of potential public concern in the Valley. Therefore, the District concludes that an Indemnification Agreement and Letter of Credit is required for this project.

IX. RECOMMENDATION

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue Authorities to Construct N-1237-788-1 through '-882-1 subject to the permit conditions on the attached draft Authorities to Construct in Appendix G.

X. BILLING INFORMATION

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description	Annual Fee
N-1237-788 through '-795	3020-05-D	50,000 gallons	$203
N-1237-796 through '-815	3020-05-D	85,000 gallons	$203
N-1237-816 through '-836	3020-05-E	105,000 gallons	$270
N-1237-837 through '-860	3020-05-E	215,000 gallons	$270
N-1237-861 through '-864	3020-05-E	350,000 gallons	$270
N-1237-865 through '-880	3020-05-E	430,000 gallons	$270
N-1237-881 and '-882	3020-05-F	640,000 gallons	$330

Appendices:

Appendix A, Current Valid ATCs N-1237-788-0 through '-882-0 for Wine Storage Tanks
Appendix B, Pre-Project Winery Tank Equipment Descriptions
Appendix C, BACT Guideline 5.4.14 and Fermentation Tanks Top Down VOC BACT Analysis
Appendix D, BACT Guideline 5.4.13 and Storage Tanks Top Down VOC BACT Analysis
Appendix E, E & J Gallo Winery Statewide Compliance Certification
Appendix F, Quarterly Net Emissions Change (QNEC) Calculations
Appendix G, Draft ATC's N-1738-788-1 through '-882-1

Appendix A

Current Valid ATCs N-1237-788-0 through '-882-0
for Wine Storage Tanks

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-788-0

ISSUANCE DATE: 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for
Arnaud Marjollet, Director of Permit Services

N-1237-788-0 Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-789-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-789-0 : Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-790-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-790-0 Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-791-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for _____
Arnaud Marjollet, Director of Permit Services
N-1237-791-0 Sep 23 2016 10:01AM – BRENNAN Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-792-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-792-0 Sep 23 2016 10:01AM [illegible] Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-793-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-793-0 Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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
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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] Federally Enforceable Through Title V Permit
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-794-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-794-0 Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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

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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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-795-0 **ISSUANCE DATE:** 09/23/2016

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:
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-795-0 Sep 23 2016 10:07AM - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-796-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-796-0 Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-797-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-797-0 Sep 23 2016 10:01AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-798-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-798-0 Sep 23 2016 10:01AM – BROWND Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-799-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-799-0 Sep 23 2016 10:01AM - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-800-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-800-0 Sep 21 2016 10:01AM – UNKOVICH Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-801-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK(TANK 85 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-801-0 Sep 23 2016 10:01AM -- BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-802-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-802-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-803-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-803-0 Sep 23 [illegible] - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-804-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-804-0 BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-805-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-805-0 Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-806-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-806-0 Sep 23 2016 10:02AM -- BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-807-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-807-0 Sep 23 2016 10:02AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-808-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-808-0 Sep 23 2016 10:02AM - BROWND Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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

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17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-809-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-809-0 Sep 23 2016 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-810-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-810-0 Sep 23 2016 10:02AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-811-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-811-0 Sep [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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

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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] 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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-812-0 **ISSUANCE DATE:** 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-812-0 Sep 23 [illegible] 10:02AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-813-0

ISSUANCE DATE: 09/23/2016

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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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-1237-813-0 Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-814-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

For Arnaud Marjollet, Director of Permit Services

N-1237-814-0 Sep 23 2016 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-815-0

ISSUANCE DATE: 09/23/2016

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:
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

For Arnaud Marjollet, Director of Permit Services
N-1237-815-0 Sep 23 2016 10:02AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-816-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services
N-1237-816-0 Sep 23 2016 10:02AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-817-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-817-0 Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-818-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-818-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-819-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-819-0 Sep 23 2016 10:05AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-820-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

For Arnaud Marjollet, Director of Permit Services
N-1237-820-0 Sep 23 2016 10:02AM ...Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-821-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-821-0 Sep 23 2016 10:57AM - DECKARD - Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-822-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

For Arnaud Marjollet, Director of Permit Services

N-1237-822-0 Sep 23 2016 10:12AM [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-823-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services
N-1237-823-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-824-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-824-0 Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-825-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services
N-1237-825-0 Sep 23 2016 10:04AM - BROWNJ : Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-826-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services
N-1237-826-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-827-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services
N-1237-827-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-828-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-828-0 Sep 23 2016 10:02AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-829-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

For

Arnaud Marjollet, Director of Permit Services
N-1237-829-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-830-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-830-0 Sep 23 2016 10:02AM - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-831-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-831-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-832-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK EQUIPPED (TANK 105 Q) WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-832-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-833-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

Arnaud Marjollet, Director of Permit Services
N-1237-833-0 Sep 23 2016 10:02AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-834-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-834-0 Sep [illegible] – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-835-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-835-0 Sep 23 [illegible] 10:02AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-836-0

ISSUANCE DATE: 09/23/2016

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:
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-836-0 Sep [illegible] 10:02AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-837-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

For Arnaud Marjollet, Director of Permit Services
N-1237-837-0 Sep 23 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-838-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-838-0 Sep 21 2016 10:02AM – Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-839-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-839-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-840-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-840-0 Sep 23 2016 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-841-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

Arnaud Marjollet, Director of Permit Services
N-1237-841-0 Sep 23 2016 10:02AM BROWND Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-842-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-842-0 Sep [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-843-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-843-0 Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-844-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-844-0 Sep [illegible] BROWND Final Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-845-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

Arnaud Marjollet, Director of Permit Services
N-1237-845-0 Sep 23 2016 10:02AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-846-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-846-0 Sep 23 2016 Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-847-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-847-0 Sep 23 2016 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-848-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

For Arnaud Marjollet, Director of Permit Services
N-1237-848-0 Sep 23 2016 10:02AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-849-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-849-0 Sep 23 2016 10:02AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-850-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-850-0 Sep 23 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-851-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-851-0 Sep 23 2016 10:03AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. . The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-852-0 **ISSUANCE DATE:** 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

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 used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-853-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services
N-1237-853-0 Sep 23 2016 10:03AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-854-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-854-0 Sep 23 2016 10:03AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-855-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-855-0 Sep 23 2016 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-856-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services
N-1237-856-0 Sep 23 2016 10:03AM - [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-857-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-857-0 Sep 23 2016 10:03AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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
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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] 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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-858-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 V) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-858-0 Sep 23 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-859-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 W) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services
N-1237-859-0 Sep 23 2016 10:03AM – BROWND Final Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-860-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-860-0 Sep 23 2016 10:03AM – Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 30.16 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-861-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-861-0 Sep 23 2016 9:49AM - Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-862-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

For

Arnaud Marjollet, Director of Permit Services

N-1237-862-0 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-863-0 **ISSUANCE DATE:** 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-863-0 Sep [illegible] 10:03AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-864-0

ISSUANCE DATE: 09/23/2016

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 NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

For Arnaud Marjollet, Director of Permit Services

N-1237-864-0 [illegible] 10:03AM - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-865-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-865-0 Sep 23 2016 10:03AM [illegible] Initial Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-866-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-866-0 Sep [illegible] 10:03AM – [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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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
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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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-867-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for Arnaud Marjollet, Director of Permit Services

N-1237-867-0 Sep 23 2016 10:53AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-868-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

For

Arnaud Marjollet, Director of Permit Services

N-1237-868-0 Sep [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] . Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-869-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services
N-1237-869-0 Sep 23 2016 10:03AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-870-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-870-0 Sep 23 [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-871-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

For

Arnaud Marjollet, Director of Permit Services
N-1237-871-0 Sep 23 2016 10:03AM Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-872-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-872-0 Sep 23 [illegible] 10:03AM - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-873-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-873-0 Sep 23 2016 10:03AM [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-874-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-874-0 Sep [illegible] 10:03AM [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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
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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] 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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-875-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-875-0 Sep [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-876-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

for

Arnaud Marjollet, Director of Permit Services

N-1237-876-0 Sep 23 2016 11:04AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-877-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-877-0 Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. 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
11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-878-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-878-0 Sep [illegible] Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-879-0

ISSUANCE DATE: 09/23/2016

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:
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services

N-1237-879-0 Sep 23 2016 MGRAMP : SBROWNO : Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-880-0

ISSUANCE DATE: 09/23/2016

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:
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1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] 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

Arnaud Marjollet, Director of Permit Services
N-1237-880-0 Sep 23 [illegible] 10:03AM – BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

HEALTHY AIR LIVING

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-881-0

ISSUANCE DATE: 09/23/2016

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:
640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

CONDITIONS

1. 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. 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 246 lb, 2nd quarter - 246 lb, 3rd quarter - 247 lb, and fourth quarter - 247 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

for Arnaud Marjollet, Director of Permit Services

N-1237-881-0 Sep 1 2016 10:03AM - BROWND Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nominal tank dimensions are 50.92 feet in diameter and 42 feet in height with a proposed volume of 640,000 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 657 lb-VOC/year (equivalent to 4,480,000 gallons of wine throughput per year). [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
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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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-1237-882-0

ISSUANCE DATE: 09/23/2016

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:
640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

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Seyed Sadredin, Executive Director / APCO

for

Arnaud Marjollet, Director of Permit Services
N-1237-882-0 Sep 23 2016 10:03AM - BRGOWAN Joint Inspection NOT Required

5. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit

6. The nominal tank dimensions are 50.92 feet in diameter and 42 feet in height with a proposed volume of 640,000 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 657 lb-VOC/year (equivalent to 4,480,000 gallons of wine throughput per year). [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 Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

17. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 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

Appendix B

Pre-Project Winery Tank Equipment Descriptions

Permit	Equipment Description
N-1237-788-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-789-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-790-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-791-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-792-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-793-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-794-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-795-0	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-796-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-797-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-798-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-799-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-800-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-801-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK(TANK 85 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-802-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-803-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-804-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-805-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-806-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-807-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-808-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-809-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-810-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-811-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-812-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-813-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-814-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-815-0	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-816-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-817-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-818-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-819-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-820-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-821-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-822-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-823-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-824-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-825-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-826-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-827-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-828-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-829-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-830-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-831-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-832-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK EQUIPPED (TANK 105 Q) WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-833-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-834-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-835-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-836-0	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-837-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-838-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-839-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-840-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-841-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-842-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-843-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-844-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-845-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-846-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-847-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-848-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-849-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-850-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-851-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-852-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-853-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-854-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-855-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-856-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-857-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-858-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 V) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-859-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 W) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-860-0	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-861-0	350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-862-0	350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-863-0	350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-864-0	350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-865-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-866-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-867-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-868-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-869-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-870-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-871-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-872-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-873-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-874-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Permit	Equipment Description
N-1237-875-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-876-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-877-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-878-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-879-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-880-0	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-881-0	640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-882-0	640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

Appendix C

BACT Guideline 5.4.14 Top Down VOC BACT Analysis for Wine Fermentation Tanks

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 5.4.14*

Last Update: 10/06/2009

Wine Fermentation Tank

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F	1. Capture of VOCs and Thermal Oxidation or Equivalent (88% control) 2. Capture of VOCs and Carbon Adsorption or Equivalent (86% control) 3. Capture of VOCs and Absorption or Equivalent (81% control) 4. Capture of VOCs and Condensation or Equivalent (81% control)	

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in s a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

***This is a Summary Page for this Class of Source**

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 Attachment C1, 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 7.25%. 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 3.06% (7.25% - 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 suggested 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 serving 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 in the table below.

Tank IDs	Permits	Tank Group	Nominal Tank Capacities (gallons)	Max CO_2 Flowrate for Entire Tank Group (scfm)
50E through 50H	N-1237-792 through '-795	1	50,000	32,664
350A through 350D	N-1237-861 through '-864		350,000	
430I through 430P	N-1237-873 through '-880		430,000	
640A through 640B	N-1237-881 through '-882		640,000	
105A through 105T	N-1237-816 through '-835	2	105,000	10,819
50A through 50D	N-1237-792 through '-795	3A	50,000	28,980
85A through 85T	N-1237-796 through '-815		85,000	
105U	N-1237-836		105,000	
215A, 215B, 215E, 215F, 215I, 215J, 215M, 215N, 215Q, 215R, 215U, and 215V	N-1237-837, '-838, '-841, '-842, '-845, '-846, '-849, '-850, '-853, '-854, '-857, and '-858		215,000	
215C, 215D, 215G, 215H, 215K, 215L, 215O, 215P, 215S, 215T, 215W, and 215X	N-1237-839, '-840, '-843, '-844, '-847, '-848, '-851, '-852, '-855, '-856, '-859, and '-860	3B	215,000	31,015
430A through 430H	N-1237-865 through '-872		430,000	
			Total:	103,478

Uncontrolled Fermentation Emissions

46 Tanks in SLC

E & J Gallo Winery is proposing to establish a combined VOC emission limit for all fermentation and storage operations for 46 of the 95 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 46 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 SLC.

Uncontrolled Fermentation $PE_{46\ Tanks\ in\ SLC}$ = 79,802 lb-VOC/year

49 Tanks not in SLC

For the remaining 49 tanks, E & J Gallo Winery is proposing to establish an annual wine fermentation throughput limit for each individual tank. Therefore, for the purposes of this cost effectiveness analysis, uncontrolled fermentation VOC emissions will be set equal to the total VOC emissions allowed under these throughput limits and calculated in the body of the evaluation above.

Uncontrolled Fermentation $PE_{49\ Tanks\ not\ in\ SLC}$ = 62,417 lb-VOC/year

Total Uncontrolled Fermentation PE

The total uncontrolled fermentation PE will be the sum of the uncontrolled fermentation emissions from all 95 tanks in this project.

Total Uncontrolled Fermentation PE = Uncontrolled Fermentation $PE_{46\ Tanks\ in\ SLC}$ + Uncontrolled Fermentation $PE_{49\ Tanks\ not\ in\ SLC}$

Total Uncontrolled Fermentation PE = 79,802 lb-VOC/year + 62,417 lb-VOC/year

Total Uncontrolled Fermentation PE = 142,219 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 C3.
- Eichleay's cost estimate for ducting included the duct, fittings, bolt up, handle and install. When additional costs, as suggested 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 C2. 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.
- 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.
- An inflation amount of 22.89% for the period of 2005 to 2016 taken from United States Department of Labor Bureau of Labor Statistics' CIP Inflation Calculator will be used: 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 C2, the cost for each tank group is summarized below:

Tank Group 1:

Connection from 50k tanks to main duct = 4 tanks x 43.25 feet x $62.17/foot = $10,755
Connection from 350k tanks to main duct = 4 tanks x 54.04 feet x $143.83/foot = $31,090
Connection from 430k tanks to main duct = 8 tanks x 56.38 feet x $174.17/foot = $78,558
Connection from 640k tanks to main duct = 2 tanks x 60.75 feet x $204.52/foot = $24,849
Main duct for fermenters = $432,036
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 18 valves x 1 system = $38,250
Unit installed cost one foot removable spool = $500/tank x 18 tanks x 1 system = $9,000
1 Knockout drum = $46,000
Duct support allowance = $200,000

Total for Group 1 = $10,755 + $31,090 + $78,558 +$24,849 +$432,036 + $38,250 + $9,000 + $46,000 + $200,000
= **$870,538**

Tank Group 2:

Connection from 150k tanks to main duct = 20 tanks x 46.54 feet x $103.25/foot = $96,105
Main duct for fermenters = $116,646
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 = $46,000

Duct support allowance = $75,000

Total for Group 2 = $96,105 + $116,646 + $42,500 + $10,000 + $46,000 + $75,000
= $386,251

Tank Group 3a:

Connection from 50k tanks to main duct = 4 tanks x 43.25 feet x $62.17/foot = $10,755
Connection from 85k tanks to main duct = 20 tanks x 54.85 feet x $62.17/foot = $68,200
Connection from 105k tanks to main duct = 1 tanks x 45.54 feet x $103.25/foot = $4,702
Connection from 215k tanks to main duct = 12 tanks x 49.58 feet x $144.33/foot = $85,871
Main duct for fermenters = $303,588
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 37 valves x 1 system = $78,625
Unit installed cost one foot removable spool = $500/tank x 37 tanks x 1 system = $18,500
1 Knockout drum = $46,000
Duct support allowance = $62,500

Total for Group 3a = $10,755 + $68,200 + $4,702 +$85,871 + $303,588 + $78,625 + $18,500 + $46,000 + $62,500
= $678,741

Tank Group 3b:

Connection from 215k tanks to main duct = 12 tanks x 49.58 feet x $144.33/foot = $85,871
Connection from 430k tanks to main duct = 8 tanks x 56.75 feet x $174.17/foot = $79,073
Main duct for fermenters = $302,170
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 = $46,000
Duct support allowance = $62,500

Total for Group 3b = $85,871 + $79,073 + $302,170 + $42,500 +$10,000 + $46,000 + $62,500
= $628,114

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
1	$870,538
2	$386,251
3a	$678,741
3b	$628,114
Total	$2,563,644

Capital Cost of Ductwork for Wine Fermentation Tanks	
Cost Description	Cost ($)
Combined Duct Estimate for all Tank Groups (See Duct Sizing in Attachment C2)	$2,563,644
Adjusting factor for inflation from 2005 dollars to 2015 dollars (22.89% total increase)	1.2289
Inflation adjusted duct cost	$3,150,462
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	$3,150,462
Instrumentation (not required)	-
Sales Tax - 3.06% of base equipment	$96,404
Freight - 5% of base equipment	$157,523
Purchased equipment cost (PEC)	**$3,404,389**
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	$34,044
Direct Installation Costs (DIC)	**$34,044**
Total Direct Costs (DC) (PEC + DIC)	**$3,438,433**
Indirect Costs	
Engineering - 10% of PEC	$340,439
Construction and field expenses - 5% of PEC	$170,219
Contractor Fees - 10% of PEC	$340,439
Start-up - 2% of PEC	$68,088
Performance Test - 1% of PEC	$34,044
Total Indirect Costs (IC)	**$953,229**
Subtotal Capital Investment (SCI) (DC + IC)	**$4,391,662**
Contingencies – 15% of SCI	$658,749
Total Capital Investment (TCI) (SCI + Contingency)	**$5,050,411**

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 4 tank ducting groups)	$800,000
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	$800,000
Instrumentation - 10% of base equipment	$80,000
Sales Tax - 3.06% of base equipment	$24,480
Freight - 5% of base equipment	$40,000
Purchased equipment cost (PEC)	**$944,480**
Foundations & supports - 8% of PEC	$75,558
Handling & erection - 14% of PEC	$132,227
Electrical - 4% of PEC	$37,779
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$9,445
Insulation - 1% of PEC	$9,445
Direct Installation Costs (DIC)	**$264,454**
Total Direct Costs (DC) (PEC + DIC)	**$1,208,934**
Indirect Costs	
Engineering - 10% of PEC	$94,448
Construction and field expenses - 5% of PEC	$47,224
Contractor fees - 10% of PEC	$94,448
Start-up - 2% of PEC	$18,890
Performance test - 1% of PEC	$9,445
Total Indirect Costs (IC)	**$264,455**
Subtotal Capital Investment (SCI) (DC + IC)	**$1,473,389**
Contingencies - 15% of SCI	$221,008
Total Capital Investment (TCI) (SCI + Contingency)	**$1,694,397**

Annualized Capital Costs

Total capital costs = Ductwork + CIP System
= $5,050,411 + $1,694,397
= $6,744,808

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 = $6,744,808 x 0.163

Total Collection System Annualized Capital Investment = $1,099,404

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 under project N-1142303. Based on the cost estimates and airflow rates provided under that project, the following RTO equipment and installation costs were estimated for the fermentation tank groupings and associated airflow rates in this project.

Control Unit	Tank Group	Airflow Rates (scfm)	Total RTO Equipment Budget Price Including Support Allowance	RTO Installation Cost
RTO EU1	1	32,664	$797,800	$47,000
RTO EU2	2	10,819	$394,100	$25,000
RTO EU3	3A	28,980	$797,800	$47,000
RTO EU4	3B	31,015	$797,800	$47,000
		Total:	$2,787,500	$166,000

Thermal Oxidation Capital Cost	
Cost Description	Cost ($)
Regenerative Thermal Oxidizer cost (four units)	$2,787,500
Installation cost (provided by B&W Megtec)	$166,000
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)	$2,953,500
Instrumentation - 10% of base equipment	$295,350
Sales Tax - 3.06% of base equipment	$90,377
Freight - 5% of base equipment	$147,675
Purchased equipment cost (PEC)	**$3,486,902**
Foundations & supports - 8% of PEC	$278,952
Handling & erection - 14% of PEC	$488,166
Electrical - 4% of PEC	$139,476
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$34,869
Insulation - 1% of PEC	$34,869
PLC/Programming - 5 units x $10,000	$50,000
Direct installation costs	**$1,026,332**
Total Direct Costs (DC)	**$4,513,234**
Indirect Costs	
Engineering - 10% of PEC	$348,690
Contractor fees - 10% of PEC	$348,690
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)	**$847,380**
Subtotal Capital Investment (SCI) (DC + IC)	**$5,360,614**
Contingencies - 15% of SCI	$804,092
Total Capital Investment (TCI) (SCI + Contingency)	**$6,164,706**

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 = $6,164,706 x 0.163 = $1,004,847

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	= 69,831 lb/day
Blower flow rate	= 103,478 scfm
	= 149,008,320 ft^3/day

-dh(c) = 69,831 lb/day x 11,800 Btu/lb ÷ 149,008,320 ft^3/day
= 5.53 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) = 5.53 Btu/ft^3 ÷ 0.0739 lb/ft^3
= 74.83 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 = 103,478 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) = 74.83 Btu/lb

$$Q = \frac{0.0739*103,478*\{0.255*[1.1*1,600-1,525-0.1*77] - 74.83\}}{0.0408*[11,800 - 1.1*0.255*(1,600 - 77)]}$$

$$= -128,994 \div 464 = -278.0\ ft^3/min$$

Since the fuel flow requirement results in a negative number, the RTO will be able to sustain sufficient temperature solely from the combustion of the waste gas (ethanol); therefore, no supplemental fuel will be required and there are no additional cost required for supplemental fuel.

Electricity Requirement

$$Power_{fan} = \frac{1.17*10^{-4}\ Qw*\ \Delta P}{\in}$$

Where
- ΔP = Pressure drop Across system = 4 in. H_2O
- $\in$ = Efficiency for fan and motor = 0.6
- Qw = 103,478 scfm

$$Power_{fan} = \frac{1.17*10^{-4}*103,478\ cfm*\ 4\ in.\ H_2O}{0.60}$$

$$= 80.71\ kW$$

Electricity Costs

Average cost of electricity to commercial users in California[1]:

2015 Average = $0.1573/kWh

[1] 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=.

Electricity Cost = 80.71 kW x 24 hours/day x 90 days/year x $0.1573/kWh = $27,423/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)[2].

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 4 units	$9,990
Supervisor	15% of operator		$1,499
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 4 units	$9,990
Maintenance	100% of labor		$9,990
Utility			
Natural Gas	not included (see calculation above)		$0
Electricity	see calculation above		$27,423
Total DAC			**$58,892**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($9,990 + $1,499 + $9,990 + $9,990)	$18,881
Administrative	2% of TCI		$123,294
Property Taxes	1% of TCI		$61,647
Insurance	1% of TCI		$61,647
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$280,469**
Annual Operating Cost (DAC + IAC)			**$339,061**

Total Annual Cost

Total Annual Cost = Regenerative Thermal Oxidizer System + Annual Cost + Ductwork/CIP Cost
= $1,004,847 + $339,061 + $1,099,404
= $2,443,312

[2] http://epa.gov/ttn/catc/dir1/cs3-2ch2.pdf.

Emission Reductions

Annual Emission Reduction = Fermentation Emissions x 0.88
= 142,219 lb-VOC/year x 0.88
= 125,153 lb-VOC/year
= 62.6 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,443,312/year ÷ 62.6 tons-VOC/year
= $39,031/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[3]. 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[4]) 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 $= Cost_{base} \times [(Capacity_{new}/Capacity_{base})^{0.6}] \times (1 - 0.2)_{Accuracy\ Adjustment}$
$= \$80,000 \times [(32,664/1,000)^{0.6}] \times 0.8$
$= \$518,348$

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	32,664	8.10	0.8	$80,000	$518,400
2	10,819	4.17	0.8	$80,000	$266,880
3a	28,980	7.54	0.8	$80,000	$482,560
3b	31,015	7.85	0.8	$80,000	$502,400
Total					$1,770,240

Capital Cost for Carbon for System

Annual Emission Reduction = Fermentation Emissions x 0.86
= 142,219 lb-VOC/year x 0.86
= 122,308 lb-VOC/year

Assume a working bed capacity of 20% for carbon (weight of vapor per weight of carbon)

Carbon required = 122,308 lb-VOC/year x 1/0.20
= 611,540 lb carbon

David Drewelow also provided a cost of $1.25/lb of carbon which does not include any delivery or servicing fees.

[3] See the following websites for additional information: http://www.pdhonline.org/courses/g127/g127content.pdf
[4] http://faculty.ksu.edu.sa/5556/Documents/Chapter%205.ppt

Annual carbon cost = $1.25/lb = $1.25/lb x 611,540 lb carbon = $764,425

Carbon Adsorption Capital Cost		
Cost Description	Equipment Cost ($)	Carbon Cost ($)
Carbon Adsorption System Cost (see above)	$1,770,240	-
Water alcohol tank cost (not included)	-	-
Carbon Capital Cost (see above)	-	$764,425
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	$1,770,240	$764,425
Instrumentation - 10% of base equipment	$177,024	-
Sales Tax - 3.06% of base equipment	$54,169	$23,391
Freight - 5% of base equipment	$88,512	$38,221
Purchased Equipment Cost (PEC)	**$2,089,945**	**$826,037**
Foundations & supports - 8% of PEC	$167,196	-
Handling & erection - 14% of PEC	$292,592	-
Electrical - 4% of PEC	$83,598	-
Piping – accounted for in ductwork cost	-	-
Painting - 1% of PEC	$20,899	-
Insulation - 1% of PEC	$20,899	-
PLC/Programming - $10,000 x 4 tank groups	$40,000	-
Direct installation costs	**$625,184**	**$0**
Total Direct Costs (DC)	**$2,715,129**	**$826,037**
Indirect Costs		
Engineering - 10% of PEC	$208,995	-
Construction and field expenses - 5% of PEC	$104,497	-
Contractor fees - 10% of PEC	$208,995	-
Start-up - 2% of PEC	$41,799	-
Initial Source Testing - 4 units x $15,000/unit	$60,000	-
Owner's Cost (allowance not requested)	-	-
Total Indirect Costs (IC)	**$624,286**	**$0**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,339,415**	**$826,037**
Contingencies - 15% of SCI	$500,912	
Total Capital Investment (TCI) (SCI + Contingency)	**$3,840,327**	**$826,037**

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 = $3,840,327 x 0.163 = $625,973

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)[5] 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 = $826,037 x 0.264 = $218,074

Annualized Cost of Carbon Adsorption Equipment + Annualized Cost of Carbon for System

Annualized Capital Cost for Carbon Adsorption System = $625,973 + $218,074 = $844,047

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)[5]. 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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[5] 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 4 units	$9,990
Supervisor	15% of operator		$1,499
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 4 units	$9,990
Maintenance	100% of labor		$9,990
Utility			
Natural Gas from Steam Production (not included)			-
Electricity (not included)			-
Total DAC			**$31,469**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($9,990 + $1,499 + $9,990 + $9,990)	$18,881
Administrative	2% of TCI		$76,806
Property Taxes	1% of TCI		$38,403
Insurance	1% of TCI		$38,403
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$187,493**
Annual Cost (DAC + IAC)			**$218,962**

Total Annual Cost for Carbon Adsorption

Total Annual Cost = Carbon Adsorption Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $844,047 + $218,962 + $1,099,404
= $2,162,413

Emission Reductions

Annual Emission Reduction = Fermentation Emissions x 0.86
= 142,219 lb-VOC/year x 0.86
= 122,308 lb-VOC/year
= 61.2 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,162,413/year ÷ 61.2 tons-VOC/year
= $35,334/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 Dan Belliveau of NohBell Corporation on September 15, 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 = $0.1573/kWh (see RTO Top Down BACT Analysis section above)
- Captured ethanol is recovered as a 10% solution suitable for disposal to an ethanol distillery at a cost of $0.08 per gallon per project N-1162653
- 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 Equipment Cost

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 handling the five tank groupings under project N-1142303. Based on those cost estimates and airflow rates provided under that project, the following scrubber equipment costs were estimated for the fermentation tank groupings and associated airflow rates in this project.

Control Unit	Tank Group	Airflow Rates (scfm)	MEGTEC Scrubber Equipment Budget Price*	D. R Technology Scrubber Equipment Budget Price
1	1	32,664	Not provided	$350,000
2	2	10,819	Not provided	$210,000
3	3a	28,980	Not provided	$350,000
4	3b	31,015	Not provided	$350,000
		Total:	$1,285,000	$1,260,000

*This supplier only provided a total equipment price for the scrubbers and did not provide individual control unit pricing for each tank group.

Scrubber Capital Cost	
Cost Description	Cost ($)
Scrubber System (four units)	$1,260,000
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	$1,260,000
Instrumentation - 10% of base equipment	$126,000
Sales Tax - 3.06% of base equipment	$38,556
Freight - 5% of base equipment	$63,000
Purchased Equipment Cost (PEC)	**$1,487,556**
Foundations & supports – 6% of PEC	$89,253
Handling & erection - 2% of PEC per Project C-1133347	$29,751
Electrical - 1% of PEC	$14,876
Piping - accounted for in ductwork cost	-
Painting - 1% of PEC	$14,876
Insulation - 3% of PEC	$44,627
PLC/Programming - $10,000 x 4 tank groups	$40,000
Recovered Ethanol Storage Tank (installed) ($40,000 x 4 tank groups)	$160,000
Direct Installation Costs (DIC)	**$393,383**
Direct Costs (DC) (PEC + DIC)	**$1,880,939**
Indirect Costs	
Engineering - 10% of PEC	$148,756
Construction and field expenses - 10% of PEC	$148,756
Contractor fees - 10% of PEC	$148,756
Start-up - 1% of PEC	$14,876
Initial Source Testing - 4 units x $15,000/unit	$60,000
Owner's Cost (allowance not requested)	-
Indirect Costs (IC)	**$521,144**
Subtotal Capital Investment (SCI) (DC + IC)	**$2,402,083**
Contingencies - 15% of SCI	$360,312
Total Capital Investment (TCI) (SCI + Contingency)	**$2,762,395**

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 = $2,762,395 x 0.163 = $450,270

Wastewater Disposal Costs

Additionally, the water scrubber will generate ethanol-laden wastewater containing 57.98 tons-ethanol annually (143,165 lb/year (uncontrolled fermentation emissions) x 0.81 ÷ 2000). Assuming a 10% solution, approximately 175,166 gallons of waste water (57.98 ton-ethanol x 2000 lb/ton x gal/6.62 lb ÷ 0.10) will be generated annually.

Annual disposal costs = 175,166 gallons x $0.08/gallon = $14,013

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 4 units	$9,990
Supervisor	15% of operator		$1,499
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 3 shift/day x 90 days/year x 4 units	$9,990
Maintenance	100% of labor		$9,990
Wastewater Disposal			
	10% Solution = 175,166 gal	$0.08/gal	$14,013
Utility			
Electricity	4 units x 2.5 hp x 0.746 kW/hp x 2,160 hr/yr = 16,114 kWh/yr	$0.1573/kWh	$2,535
Total DAC			**$48,017**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($9,990 + $1,499 + $9,990 + $9,990)	$18,881
Administrative	2% of TCI		$55,248
Property Taxes	1% of TCI		$27,624
Insurance	1% of TCI		$27,624
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$144,377**
Annual Cost (DAC + IAC)			**$192,394**

Total Annual Cost = Scrubber Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $450,270 + $192,394 + $1,099,404
= $1,742,068

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
= 142,219 lb-VOC/year x 0.81
= 115,197 lb-VOC/year
= 57.6 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $1,742,068/year ÷ 57.6 tons-VOC/year
= $30,244/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 October 14, 2016.

In addition to the base equipment cost of $5,070,000, EcoPAS also provided cost for direct and indirect expenses and annual expenses associated with a condenser system.

The cost provided by EcoPAS will be utilized with the exception of the following items:

- It was stated that the ducting cost would be $696,107. As discussed above, the District performed a cost survey of stainless steel ducting/piping and compared those costs to the costs stated in the Eichleay report and used a ducting/piping layout as shown in Attachment C2. Since no additional details or justification was provided for EcoPAS's estimate and no layout was provided, the District's cost estimate will be used.
- It was stated that the instrumentation costs are $0 because "the proposed PAS-50 system includes instrumentation for monitoring temperature, pressure, flow, and fluid levels". EPA's Control Cost Manual, Sixth Edition (EPA/452/B-02-001) states that for instrumentation factors, "...if the control is intermittent and/or requires safety backup instrumentation, the higher end of the range would applicable." Since the control device will be required to capture emissions at a wide range of flow rates as the emissions increase over time and then eventually taper back off and because of the sensitivity of the final product (wine) to any backpressure, it is expected that instrumentation costs on the facilities tanks would be significant in addition to the instrumentation costs provided by the vendor on the control device system. Therefore, as recommended in EPA's Control Cost Manual, instrumentation costs will be estimated at 10% of the base equipment cost.
- Foundations and supports are stated to be $0 because the "PAS units are skid-mounted with all required supports." Although all costs for supports are included in the base equipment price, it is expected that the facility will require site preparation and a foundation for the skid mounted equipment to be placed upon; therefore, since only half of the category (foundations and not supports) are still required to be accounted for, only half of the recommended allowance (14% of the base equipment cost) for the category will be used (or 7% of the base equipment cost).
- PLC Programming is stated to be $0 because the "PAS system does not require external programmable logic controllers. All instrumentation data (above) is available to facility manager via industrial current loop or other communication interface (TBD)." Although the information is available at the control device system, that information needs to be incorporated into the facility's existing PLC system and safety measures need to be incorporated into the control device system should any of the critical parameters to winemaking start to become adversely affected by the control device. Therefore, the PCL cost stated above under "All Control Options" will be included as costs in addition to the equipment/information provided by the control device system manufacturer is expected to be incurred by the facility.

- Engineering, construction & field expenses, and contractor fees are stated to be $0 because "EcoPAS is a licensed HVAC and Mechanical engineering contractor, and for a project of this size, installation is included in the purchase price." EPA's Control Cost Manual explains that construction and field expenses are "costs for construction supervisory personnel, office personnel, rental of temporary offices, etc." and contractor fees are "for construction and engineering firms involved in the project." It is expected that during any construction project at the facility that supervisory and office personnel would be required to coordinate construction activities and for any installation of a system not demonstrated to have been previously successfully installed that engineering costs would be incurred by the facility. Therefore, the recommended engineering, construction & field expenses, and contractor fees will be included in the cost estimate as recommended by EPA's Control Cost Manual.
- As an indirect cost, the source testing amount was estimated to be $5,000 without any justification. Since this responsibility will be upon the facility and as previously discussed, due to the unsteady state operation of fermentation tanks, the initial source testing cost is estimated to be $15,000.
- The proposed control device system has not been installed at a winery of this magnitude previously or has demonstrated to been able to control emissions from a wine fermentation process over the entire process which may require a facility to significantly alter its traditional wine making processes and may result in production-related costs to the owner. Since this would be the first installation of this control technology at a large winery, and would likely require significant redesign of wine fermentation tanks as well as the manner in which ingredients are added and recirculated in the fermentation tanks, a significant amount should be estimated for contingencies. Furthermore, the contingency cost utilized in the District's application review of 15% of the subtotal capital investment is based on reasonable estimates published by the Association for the Advancement of Cost Engineering International and the Electric Power Research Institute. Therefore, the District believes it is reasonable and appropriate to include this amount of costs in this analysis.
- It is stated the direct annual costs include operator cost at $3,300; however, no justification was provided. Therefore, the District will assume ½ hr per shift (as did EcoPAS) at $18.50/hr for 3 shifts/day for 90 days which yields $2,498.
- It is stated that the maintenance labor and materials is expected to be $0. The District expects cost to be incurred by the facility for maintenance personnel to be available during any maintenance performed by the vendor or to schedule such maintenance to be performed by the vendor and well as any maintenance required on system other than the control device. It is expected that specific tools and materials for this new never-before-installed equipment will be required by the facility for equipment outside of the vendor's responsibility. Therefore, maintenance labor and materials, as recommended by EPA's Control Cost Manual will be included in the cost estimate.
- It is stated that EcoPAS believes that a CIP system is an optional and unnecessary cost for collection of winery VOCs. As stated above and in the District's response to public comments in projects N-1142303, N-1143210, N-1153192 and N-1152244, the District believes it is both reasonable and appropriate to utilize a CIP system for any emission control installation at a large winery and has therefore included the cost for such a system in the cost estimate.

Condensation Capital Cost	
Cost Description	Cost ($)
Cost of Refrigerated Condenser system (26 PAS Units)	$5,070,000
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	$5,070,000
Instrumentation - 10% of base equipment	$507,000
Sales Tax - 3.06% of base equipment	$155,142
Freight - per EcoPAS	$50,700
Purchased equipment cost (PEC)	**$5,782,842**
Foundations - 7% of PEC (since supports are included in EcoPAS's base equipment cost)	$404,799
Handling & erection – per EcoPAS	$210,912
Electrical – per EcoPAS	$158,184
Piping – accounted for in ductwork cost	-
Painting – per EcoPAS	$0
Insulation – per EcoPAS	$0
PLC & Programming - 26 units x $10,000	$260,000
Direct Installation Costs (DIC)	**$1,033,895**
Total Direct Costs (DC) (PEC + DIC)	**$6,816,737**
Indirect Costs	
Engineering - 10% of PEC	$578,284
Construction and field expenses - 5% of PEC	$289,142
Contractor fees - 10% of PEC	$578,284
Start-up – per EcoPAS	$105,456
Source Testing - 26 units x $15,000/unit	$390,000
Owner's Cost (allowance not requested)	-
Total Indirect Costs (IC)	**$1,941,166**
Subtotal Capital Investment (SCI) (DC + IC)	**$8,757,903**
Contingencies - 15% of SCI	$1,313,685
Total Capital Investment (TCI) (DC + IC)	**$10,071,588**

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 = $10,071,588 x 0.163 = $1,641,669

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 26 units	$64,935
Supervisor	15% of operator		$9,740
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 90 days/year x 26 units	$64,935
Maintenance	100% of labor		$64,935
Chiller (Glycol)			
Not included at this time			-
Utility (Electricity)			
Not included at this time			-
Total DAC			**$204,545**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($64,935 + $9,740 + $64,935 + $64,935)	$122,727
Administrative	2% of TCI		$201,432
Property Taxes	1% of TCI		$100,716
Insurance	1% of TCI		$100,716
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$540,591**
Annual Cost (DAC + IAC)			**$745,136**

Total Annual Cost = Condenser Capital Cost + Annual Operating Cost + Ductwork/Piping Cost
= $1,641,669 + $745,136+ $1,099,404
= $3,486,209

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
= 142,219 lb-VOC/year x 0.81
= 115,197 lb-VOC/year
= 57.6 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $3,486,209/year ÷ 57.6 tons-VOC/year
= $60,524/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 C1

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 C2

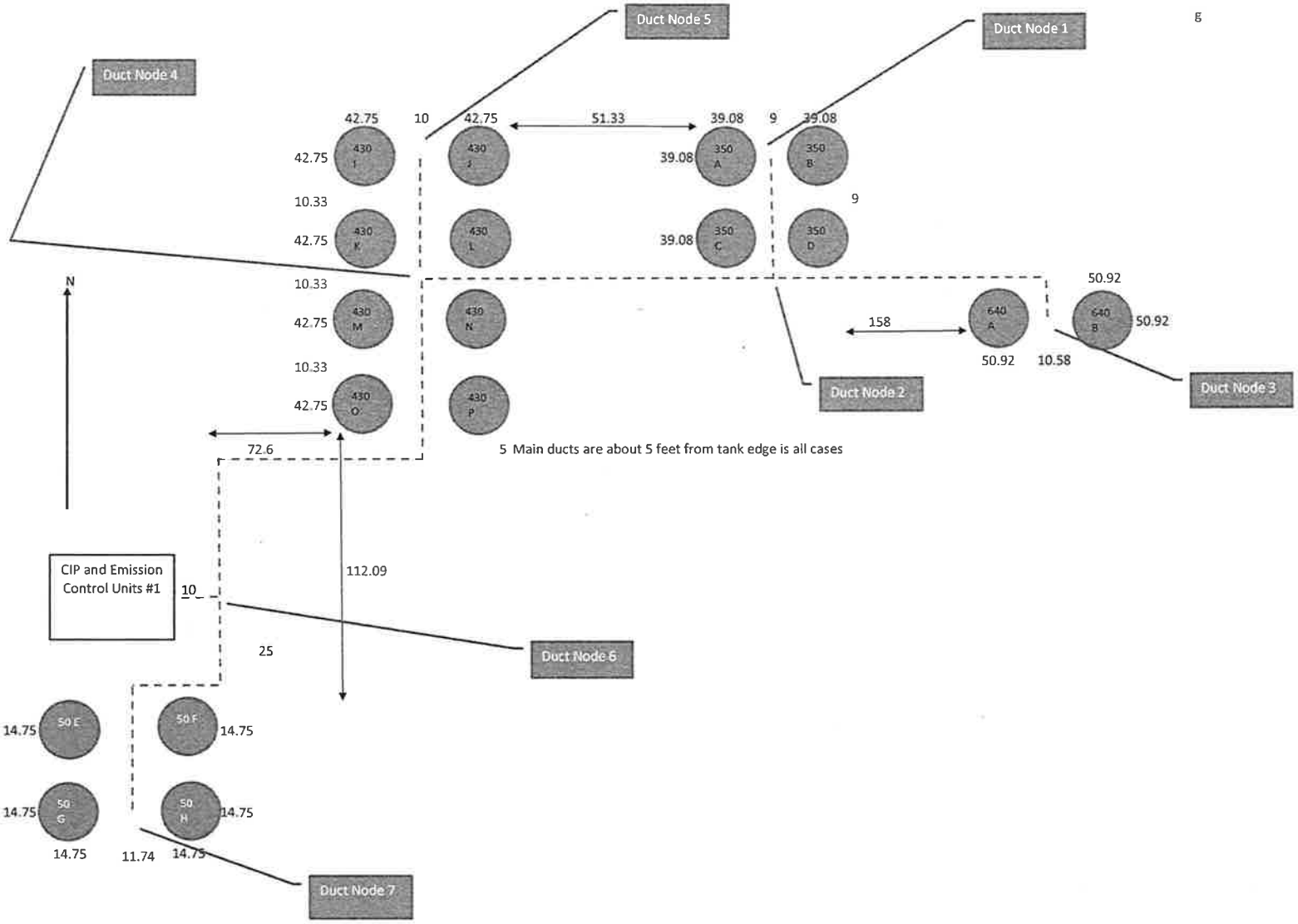
Ducting Layout Diagrams and Ducting Cost Estimates

Fermentation Tank Layout (Group 1)

A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross references the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

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 layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 18

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



Fermentation Ducting Costs (Group 1)

Connection Duct Sizing

Comments	Nominal Volume of the Tank in Gallons	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Tank fill Percentage Based on Red Fermentation	Maximum Gas Flow for Red Fermentation per 1000 Gallons Based on Kinetic Model	Operating Volume on the Tank in Gallons	Gas Flow Rate Based on Red Fermentations per Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting to Main Duct
50,000 Gallon Tanks	50000	43.25	4.00	172.98	40.00	9.95	80.00%	6.44	40,000	258	4.44	6.00	4.00	$10,500	$62.17	$21,254
350,000 Gallon Tanks	350000	54.04	4.00	216.16	40.00	69.65	80.00%	6.44	280,000	1,803	11.74	12.00	4.00	$10,500	$143.83	$41,590
430,000 Gallon Tanks	430000	56.38	8.00	451.00	40.00	85.57	80.00%	6.44	344,000	2,215	13.01	14.00	8.00	$21,000	$174.17	$99,552
640,000 Gallon Tanks	650000	60.75	2.00	121.50	40.00	129.02	80.00%	6.44	520,000	3,349	15.99	16.00	2.00	$5,250	$204.52	$30,099
Gallons Under Fermentation			5,072,000												Sub Toal	$192,496

Main Ducting Sizing

Comments	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping. This is set at 50%	Gas Flows CFM Filling	Gas Flow at Ending Node CFM	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Adjusted Duct Size Inches	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
Two 640K Tanks	3	2	2.00	1	129.02	6,698	40.00	22.62	24	288	$397.67	$114,627
Four 350K Tanks	1	2	4.00	2	139.30	7,213	40.00	23.47	24	73	$397.67	$28,879
No Tanks Added	2	4	6.00	3	268.32	13,910	40.00	32.60	32	143	$476.73	$68,010
Four 430K Tanks	5	4	4.00	2	171.15	8,861	40.00	26.02	26	80	$397.67	$31,662
Four More 430K Tanks-Total 14	4	6	14.00	7	439.47	31,633	40.00	49.16	50	313	$548.46	$171,905
4 50K Tanks	7	6	4.00	2		1,030	40.00	8.87	10	79	$144.33	$11,468
None	6	Emissions	18.00	9	459.37	32,664	40.00	49.95	50	10	$548.46	$5,485
											Knock Out Drum Eichleay	$46,000
											Structural Support Allowance	$200,000
											Sub Total	$678,036
											Redundant Duct for Cleaning	$0
											Total	**$870,532**

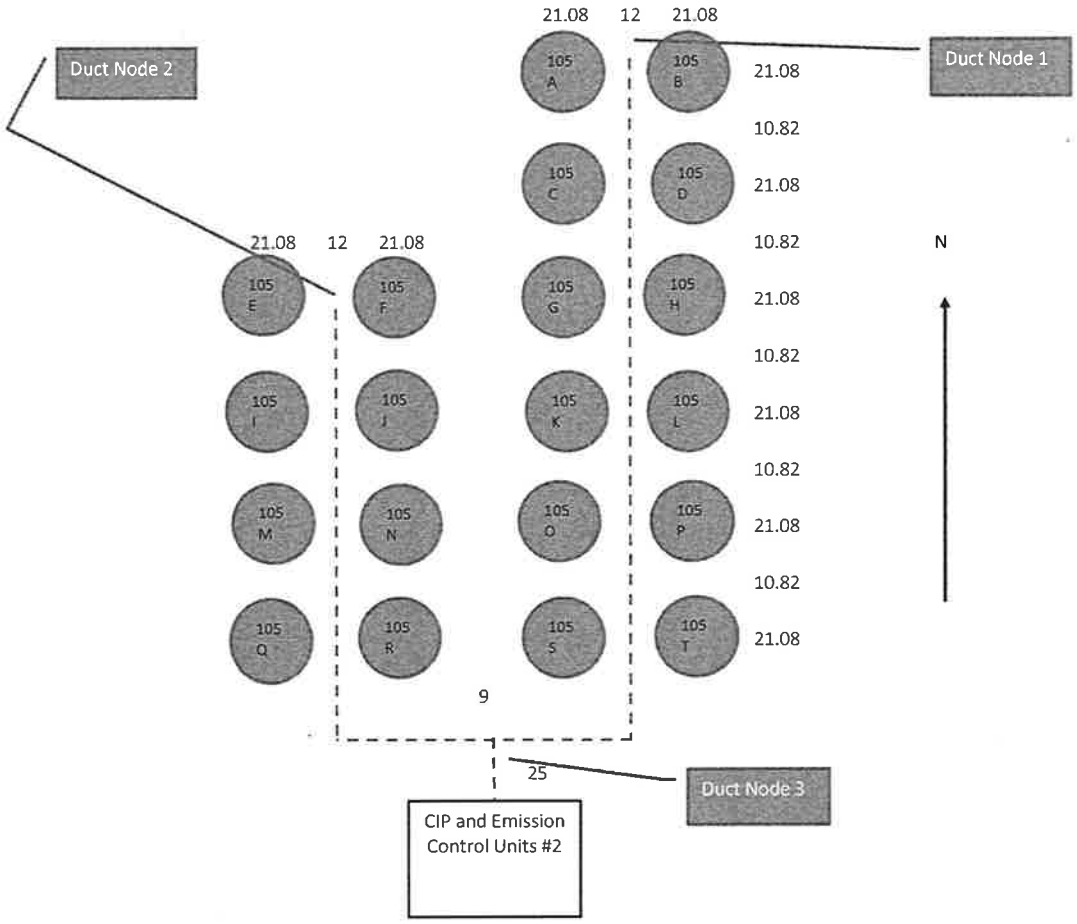
Since the red fermentation gas flow is much larger than the filling gas flow rate or the white fermentation gas flow rate; the red fermentation gas flow controls the duct size. Ducting Cost are estimated from the Eichleay 2005 work.

Fermentation Tank Layout (Group 2)

A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross references the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

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 layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 20

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



Fermentation Ducting Costs (Group 2)

Connection Duct Sizing

Comments	Nominal Volume of the Tank in Gallons	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Tank fill Percentage Based on Red Fermentation	Maximum Gas Flow for Red Fermentation per 1000 Gallons Based on Kinetic Model	Operating Volume on the Tank in Gallons	Gas Flow Rate Based on Red Fermentations per Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
105,000 Gallon Tanks	105,000	46.54	20.00	930.80	40.00	20.90	80.00%	6.44	84,000	541	6.43	8.00	20.00	$52,500	$103.25	$148,607
	Gallons Under Fermentation	1,680,000														

Main Ducting Sizing

Comments	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping. This is set at 50%	Gas Flows CFM	Gas Flow at Ending Node CFM	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Adjusted Duct Size Inches	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
Twelve 105K Tanks	1	3	12.00	6	125.37	6,492	40.00	22.27	22	229	$306.44	$70,083
Eight 105K Tanks	2	3	8.00	4	83.58	4,328	40.00	18.18	18	138	$251.38	$34,645
Twenty Tanks Total	3	Emissions	20.00	9	208.96	10,819	40.00	28.75	28	25	$476.73	$11,918
											Knock Out Drum Eichleay	$46,000
											Structural Support Allowance	$75,000
											Sub Total	$237,646
											Redundant Duct for Cleaning	$0
											Total	**$386,253**

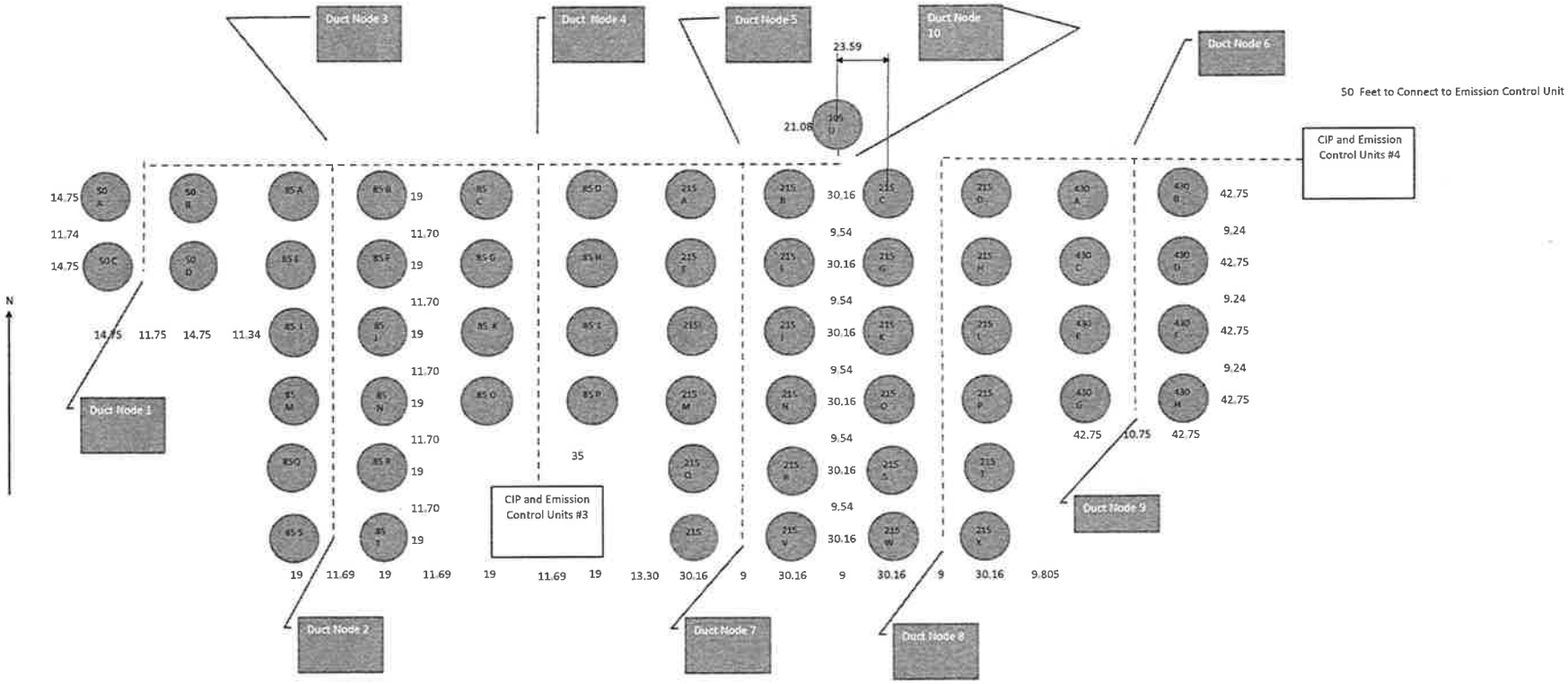
Since the red fermentation gas flow is much larger than the filling gas flow rate or the white fermentation gas flow rate; the red fermentation gas flow controls the duct size. Ducting Cost are estimated from the Eichleay 2005 work.

Fermentation Tank Layout (Groups 3a and 3b)

A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross references the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

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 layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 57

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



Fermentation Ducting Costs (Groups 3a and 3b)

Connection Duct Sizing

Comments	Nominal Volume of the Tank in Gallons	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Tank fill Percentage Based on Red Fermentation	Maximum Gas Flow for Red Fermentation per 1000 Gallons Based on Kinetic Model	Operating Volume on the Tank in Gallons	Gas Flow Rate Based on Red Fermentations per Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
50,000 Gallon Tanks	50,000	43.25	4.00	173.00	40.00	9.95	80.00%	6.44	40,000	258	4.44	6.00	4.00	$10,500	$62.17	$21,256
85,000 Gallon Tanks	85,000	54.85	20.00	1,096.90	40.00	16.92	80.00%	6.44	68,000	438	5.78	6.00	20.00	$52,500	$62.17	$120,695
105,000 Gallon Tanks	105,000	45.54	1.00	45.54	40.00	20.90	80.00%	6.44	84,000	541	6.43	8.00	1.00	$2,625	$103.25	$7,327
215,000 Gallon Tanks	215,000	49.58	24.00	1,189.92	40.00	42.79	80.00%	6.44	172,000	1,108	9.20	10.00	24.00	$63,000	$144.33	$234,745
430,000 Gallon Tanks	430,000	56.75	8.00	454.00	40.00	85.57	80.00%	6.44	344,000	2,215	13.01	14.00	8.00	$21,000	$174.17	$100,075
Gallon Under Fermentation Emission Unit 3	3,668,000															
Gallon Under Fermentation Emission Unit 4	4,816,000															
															Sub Total	$484,098

Main Ducting Sizing

Comments	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping This is set about 50%	Gas Flows CFM	Gas Flow at Ending Node CFM	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Nominal Duct Size diameter in inches (See comments)	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
Eight 430K Tanks	9	6	8.00	4	342.29	17,723	40.00	36.80	38	182	$548.46	$100,009
Twelve 215K Tanks	8	6	12.00	6	256.72	13,292	40.00	31.87	32	311	$476.73	$148,344
	6	Emission Control 4	20.00			31,015	40.00	48.68	48	98	$548.46	$53,817
Four 50K Tanks	1	3	4.00	2	19.90	1,030	40.00	8.87	10	96	$144.33	$13,808
Twelve 85K Tanks	2	3	12.00	6	101.49	5,255	40.00	20.04	20	168	$309.38	$51,975
Sixteen Tanks	3	4	16.00	8	121.39	6,285	40.00	21.91	22	61	$306.44	$18,809
One Tank	10	5	1.00			541	40.00	6.43	8	35	$103.25	$3,629
Twelve 215K Tanks	7	5	12.00	6	256.72	13,292	40.00	31.87	32	219	$476.73	$104,204
Thirteen Tanks	5	4	13.00	6	513.44	13,833	40.00	32.51	32	73	$476.73	$34,708
Thirty Seven Tanks	4	Emission Control 3	12.00	6		28,980	40.00	47.05	48	139	$548.46	$76,455
											2 Knock Out Drum Eichleay	$92,000
											Structural Support Allowance	$125,000
											Sub Total	$822,759
											Redundant Ducting	$0
											Total	**$1,306,857**

Since the red fermentation gas flow is much larger than the filling gas flow rate or the white fermentation gas flow rate; the red fermentation gas flow controls the duct size. Ducting Cost are estimated from the Eichleay 2005 work.

Attachment C3

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 D

BACT Guideline 5.4.13 and Storage Tanks Top Down VOC BACT Analysis

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 5.4.13*

Last Update: 09/26/2011

Wine Storage Tank - Non-Wood Material**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	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.	1. Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control) 2. Capture of VOCs and carbon adsorption or equivalent (95% control) 3. Capture of VOCs and absorption or equivalent (90% control) 4. Capture of VOCs and condensation or equivalent (70% control)	

**This guideline is applicable to a wine storage tank that is not constructed out of wooden materials.
***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 ot diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete (except for fittings) are considered self-insulating.

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in s a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

***This is a Summary Page for this Class of Source**

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, capital 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 C above.
- As stated above, all the cost from the fermentation analysis in Appendix C applies 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 7.25%. 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 3.06% (7.25% - 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.

Uncontrolled Storage Emissions

E & J Gallo Winery is proposing to establish a combined VOC emission limit for all fermentation and storage operations from the 46 winery tanks being included in the new SLC 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 46 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= 79,802 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 D2.
- Eichleay's cost estimate for ducting included the duct, fittings, bolt up, handle and install. When additional costs, as suggested 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.
- 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.
- An inflation amount of 22.89% for the period of 2005 to 2016 taken from United States Department of Labor Bureau of Labor Statistics' CIP Inflation Calculator will be used: http://www.bls.gov/data/inflation_calculator.htm.
- See Attachment D1 for ducting layout diagrams and ducting cost estimates.

Capital Cost of Ductwork

As detailed in the tank layout sketches and the ductwork cost calculations included in Attachment D1, the cost for each tank group is summarized below:

Tank Group 1:

Connection from 350k tanks to main duct = 4 tanks x 54.04 feet x $143.83/foot = $31,090
Connection from 640k tanks to main duct = 2 tanks x 60.75 feet x $204.52/foot = $24,849
Main duct for fermenters = $155,424
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 6 valves x 1 system = $12,750
Unit installed cost one foot removable spool = $500/tank x 6 tanks x 1 system = $3,000
1 Knockout drum = $46,000
Duct support allowance = $100,000

Total for Group 1 = $31,090 + $24,849 + $155,424 + $12,750 + $3,000 + $46,000 + $100,000
= $373,113

Tank Group 2:

Connection from 150k tanks to main duct = 12 tanks x 46.54 feet x $103.25/foot = $57,663
Main duct for fermenters = $62,804
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 = $46,000
Duct support allowance = $48,750

Total for Group 2 = $57,663 + $62,804 + $25,500 + $6,000 + $46,000 + $48,750
= $246,717

Tank Group 3a:

Connection from 85k tanks to main duct = 8 tanks x 54.85 feet x $62.17/foot = $27,280
Connection from 215k tanks to main duct = 12 tanks x 49.58 feet x $144.33/foot = $85,871
Main duct for fermenters = $157,547
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 = $46,000
Duct support allowance = $46,875

Total for Group 3a = $27,280 + $85,871 + $157,547 + $42,500 + $10,000 + $46,000 + $46,875
= $416,073

Tank Group 3b:

Connection from 215k tanks to main duct = 4 tanks x 49.58 feet x $144.33/foot = $28,624
Connection from 430k tanks to main duct = 4 tanks x 56.75 feet x $174.17/foot = $39,537
Main duct for fermenters = $97,129
Unit installed cost for 6 inch butterfly valve = $2,125/valve x 8 valves x 1 system = $17,000
Unit installed cost one foot removable spool = $500/tank x 8 tanks x 1 system = $4,000
1 Knockout drum = $46,000
Duct support allowance = $25,000

Total for Group 3b = $28,624 + $39,537 + $97,129 + $17,000 +$4,000 + $46,000 + $25,000
= $257,290

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	$373,113
2	$246,717
3a	$416,073
3b	$257,290
Total	$1,293,193

Capital Cost of Ductwork for Wine Storage Tanks	
Cost Description	Cost ($)
Combined Duct Estimate for all Tank Groups (See Duct Sizing in Attachment F2)	$1,293,193
Adjusting factor for inflation from 2005 dollars to 2015 dollars (22.89% total increase)	1.2289
Inflation adjusted duct cost	$1,589,205
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	$1,589,205
Instrumentation (not required)	-
Sales Tax - 3.06% of base equipment	$48,630
Freight - 5% of base equipment	$79,460
Purchased equipment cost (PEC)	**$1,717,295**
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	$17,173
Direct Installation Costs (DIC)	**$17,173**
Total Direct Costs (DC) (PEC + DIC)	**$1,734,468**
Indirect Costs	
Engineering - 10% of PEC	$171,730
Construction and field expenses - 5% of PEC	$85,865
Contractor Fees - 10% of PEC	$171,730
Start-up - 2% of PEC	$34,346
Performance Test - 1% of PEC	$17,173
Total Indirect Costs (IC)	**$480,844**
Subtotal Capital Investment (SCI) (DC + IC)	**$2,215,312**
Contingencies – 15% of SCI	$332,297
Total Capital Investment (TCI) (SCI + Contingency)	**$2,547,609**

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 4 tank ducting groups)	$800,000
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	$800,000
Instrumentation - 10% of base equipment	$80,000
Sales Tax - 3.06% of base equipment	$24,480
Freight - 5% of base equipment	$40,000
Purchased equipment cost (PEC)	**$944,480**
Foundations & supports - 8% of PEC	$75,558
Handling & erection - 14% of PEC	$132,227
Electrical - 4% of PEC	$37,779
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	$9,445
Insulation - 1% of PEC	$9,445
Direct Installation Costs (DIC)	**$264,454**
Total Direct Costs (DC) (PEC + DIC)	**$1,208,934**
Indirect Costs	
Engineering - 10% of PEC	$94,448
Construction and field expenses - 5% of PEC	$47,224
Contractor fees - 10% of PEC	$94,448
Start-up - 2% of PEC	$18,890
Performance test - 1% of PEC	$9,445
Total Indirect Costs (IC)	**$264,455**
Subtotal Capital Investment (SCI) (DC + IC)	**$1,473,389**
Contingencies - 15% of SCI	$221,008
Total Capital Investment (TCI) (SCI + Contingency)	**$1,694,397**

Annualized Capital Costs

Total capital costs = Ductwork + CIP System
= $2,547,609 + $1,694,397
= $4,242,006

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 = $4,242,006 x 0.163

Total Collection System Annualized Capital Investment = $691,447

Option 1 - Collection of VOCs and Control by Thermal or Catalytic Oxidation (98% collection & control):

Design Basis

- Due to the additional flow rate from the storage tanks being minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks have already been included and analyzed in the control equipment associated with the fermentation tanks in Appendix D above.

Thermal/Catalytic Oxidizer Capital Cost

The annualized capital cost for thermal/catalytic oxidizers serving each of the tank groups was established in Appendix D above. The annualized capital cost will be as follows:

Annualized Capital Investment = $1,004,847/year

Annual Operation and Maintenance Costs

Fuel and Electricity Costs

As discussed above, the control systems for these storage tanks is being designed for the worst case emission scenario which occurs during fermentation operations. When these tanks are being used for wine storage, the emissions and airflow rates will be considerably lower than when fermentation operations are taking place. Therefore, the blowers and thermal oxidizer that make up the control system will not be utilized at their maximum capacities. Due to the lower utilization rates, as a conservative estimate, it will be assumed that no auxiliary natural gas and electricity will be needed to operate the thermal oxidizer. Therefore, the auxiliary costs for natural gas and electricity consumption will be set equal to $0 for the purposes of this top-down BACT analysis.

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)[6].

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 4 units	$27,010
Supervisor	15% of operator		$4,052
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 4 units	$27,010
Maintenance	100% of labor		$27,010
Utility			
Natural Gas	not included		$0
Electricity	not included		$0
Total DAC			**$85,082**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($27,010 + $4,052 + ($27,010 + $27,010)	$51,049
Administrative	2% of TCI (taken from Appendix D above)		$123,294
Property Taxes	1% of TCI (taken from Appendix D above)		$61,647
Insurance	1% of TCI (taken from Appendix D above)		$61,647
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$312,637**
Annual Operating Cost (DAC + IAC)			**$397,719**

Total Annual Cost

Total Annual Cost = Regenerative Thermal Oxidizer System + Annual Cost + Ductwork/CIP Cost
= $1,004,847 + $397,719 + $691,447
= $2,094,013

[6] http://epa.gov/ttn/catc/dir1/cs3-2ch2.pdf

Emission Reductions

Annual Emission Reduction = Uncontrolled Storage Emissions x 0.98
= 79,802 lb-VOC/year x 0.98
= 78,206 lb-VOC/year
= 39.1 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $2,094,013/year ÷ 39.1 tons-VOC/year
= $53,555/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 the additional flow rate from the storage tanks being minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks have already been included and analyzed in the control equipment associated with the fermentation tanks in Appendix D above.
- 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 capital cost for carbon adsorption system serving each of the tank groups was established in Appendix D above. The total carbon adsorption capital cost is as follows:

Capital Cost = $1,770,240

Capital Cost of Carbon for System

Annual Emission Reduction = Fermentation Emissions x 0.95
= 79,802 lb-VOC/year x 0.95
= 75,812 lb-VOC/year

Assume a working bed capacity of 20% for carbon (weight of vapor per weight of carbon)

Carbon required = 75,812 lb-VOC/year x 1/0.20
= 379,060 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 379,060 lb carbon = $473,825

Carbon Adsorption Capital Cost		
Cost Description	Equipment Cost ($)	Carbon Cost ($)
Carbon Adsorption System Cost (see above)	$1,770,240	-
Water alcohol tank cost (not included)	-	-
Carbon Capital Cost (see above)	-	$473,825
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	$1,770,240	$473,825
Instrumentation - 10% of base equipment	$177,024	-
Sales Tax - 3.06% of base equipment	$54,169	$14,499
Freight - 5% of base equipment	$88,512	$23,691
Purchased Equipment Cost (PEC)	**$2,089,945**	**$512,015**
Foundations & supports - 8% of PEC	$167,196	-
Handling & erection - 14% of PEC	$292,592	-
Electrical - 4% of PEC	$83,598	-
Piping – accounted for in ductwork cost	-	-
Painting - 1% of PEC	$20,899	-
Insulation - 1% of PEC	$20,899	-
PLC/Programming - $10,000 x 4 tank groups	$40,000	-
Direct installation costs	**$625,184**	**$0**
Total Direct Costs (DC)	**$2,715,129**	**$512,015**
Indirect Costs		
Engineering - 10% of PEC	$208,995	-
Construction and field expenses - 5% of PEC	$104,497	-
Contractor fees - 10% of PEC	$208,995	-

Carbon Adsorption Capital Cost		
Start-up - 2% of PEC	$41,799	-
Initial Source Testing - 4 units x $15,000/unit	$60,000	-
Owner's Cost (allowance not requested)	-	-
Total Indirect Costs (IC)	**$624,286**	**$0**
Subtotal Capital Investment (SCI) (DC + IC)	**$3,339,415**	**$512,015**
Contingencies - 15% of SCI	$500,912	-
Total Capital Investment (TCI) (SCI + Contingency)	**$3,840,327**	**$512,015**

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 = $3,840,327 x 0.163 = $625,973

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)[7] 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 = $512,015 x 0.264 = $135,172

[7] 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.

Annualized Cost of Carbon Adsorption Equipment + Annualized Cost of Carbon for System

Annualized Capital Cost for Carbon Adsorption System = $625,973 + $135,172 = $761,145/year

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). 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.

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 4 units	$27,010
Supervisor	15% of operator		$4,052
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 4 units	$27,010
Maintenance	100% of labor		$27,010
Utility			
Natural Gas from Steam Production (not included)			-
Electricity (not included)			-
Total DAC			**$85,082**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($27,010+ $4,052 + $27,010+ $27,010)	$51,049
Administrative	2% of TCI		$76,807
Property Taxes	1% of TCI		$38,403
Insurance	1% of TCI		$38,403
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$219,662**
Annual Cost (DAC + IAC)			**$304,744**

Total Annual Cost for Carbon Adsorption

Total Annual Cost = Carbon Adsorption Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $761,145 + $304,744 + $691,447
= $1,757,336

Emission Reductions

Annual Emission Reduction = Fermentation Emissions x 0.95
= 79,802 lb-VOC/year x 0.95
= 75,812 lb-VOC/year
= 37.9 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $1,757,336/year ÷ 37.9 tons-VOC/year
= $46,368/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 Dan Belliveau of NohBell Corporation on September 15, 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 the additional flow rate from the storage tanks being minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks have already been included and analyzed in the control equipment associated with the fermentation tanks in Appendix D above.
- 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 16 hours per day and 365 days per year.
- Electric power cost = $0.1573/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

The annualized capital cost for scrubbers serving each of the tank groups was established in Appendix D above. The annualized capital cost is as follows:

Annualized Capital Investment = $450,270/year

Wastewater Disposal Costs

Additionally, the water scrubber will generate ethanol-laden wastewater containing 35.9 tons-ethanol annually (79,802 lb/year (uncontrolled fermentation emissions) x 0.90 ÷ 2000). Assuming a 10% solution, approximately 108,459 gallons of waste water (35.9 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 = 108,459 gallons x $0.08/gallon = $8,677

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 4 units		$27,010
Supervisor	15% of operator			$4,052
Maintenance				
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 4 units		$27,010
Maintenance	100% of labor			$27,010
Wastewater Disposal				
	10% Solution = 108,459 gal		$0.08/gal	$8,677
Utility				
Electricity	4 units x 2.5 hp x 0.746 kW/hp x 16 hr/day x 365 day/yr = 43,566 kWh/yr		$0.1573/kWh	$6,853
Total DAC				**$100,612**
Indirect Annual Cost (IAC)				
Overhead	60% of Labor Cost	0.6 x ($27,010 + $4,052 + $27,010 + $27,010)		$51,049
Administrative	2% of TCI (taken from Appendix D above)			$55,248
Property Taxes	1% of TCI (taken from Appendix D above)			$27,624
Insurance	1% of TCI (taken from Appendix D above)			$27,624
Annual Source Test	One representative test/year @ $15,000			$15,000
Total IAC				**$176,545**
Annual Cost (DAC + IAC)				**$277,157**

Total Annual Cost = Scrubber Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $450,270 + $277,157 + $691,447
= $1,418,874

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
= 79,802 lb-VOC/year x 0.90
= 71,822 lb-VOC/year
= 35.9 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $1,418,874/year ÷ 35.9 tons-VOC/year
= $39,523/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 the additional flow rate from the storage tanks being minimal compared to the flow rate of the fermentation tanks, all of the wine storage tanks have already been included and analyzed in the control equipment associated with the fermentation tanks in Appendix D above.
- 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.

Refrigerated Condenser Equipment Capital Cost

The annualized capital cost for condensation systems serving each of these tank groups was established in Appendix D above. The annualized capital cost is as follows:

Annualized Capital Investment = $1,641,669/year

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 26 units	$175,565
Supervisor	15% of operator		$26,335
Maintenance			
Labor	0.5 h/shift	$18.50/hr x 0.5 hr/shift x 2 shift/day x 365 days/year x 26 units	$175,565
Maintenance	100% of labor		$175,565
Chiller (Glycol)			
Not included at this time			-
Utility (Electricity)			
Not included at this time			-
Total DAC			**$553,030**
Indirect Annual Cost (IAC)			
Overhead	60% of Labor Cost	0.6 x ($175,565 + $26,335 + $175,565 + $175,565)	$331,818
Administrative	2% of TCI (taken from Appendix D above)		$201,432
Property Taxes	1% of TCI (taken from Appendix D above)		$100,716
Insurance	1% of TCI (taken from Appendix D above)		$100,716
Annual Source Test	One representative test/year @ $15,000		$15,000
Total IAC			**$749,682**
Annual Cost (DAC + IAC)			**$1,302,712**

Total Annual Cost = Condenser Capital Cost + Annual Operating Cost + Ductwork/CIP Cost
= $1,641,669 + $1,302,712 + $691,447
= $3,635,828

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
= 79,802 lb-VOC/year x 0.70
= 55,861 lb-VOC/year
= 27.9 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

Cost Effectiveness = $3,635,828/year ÷ 27.9 tons-VOC/year
= $130,316/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 D1

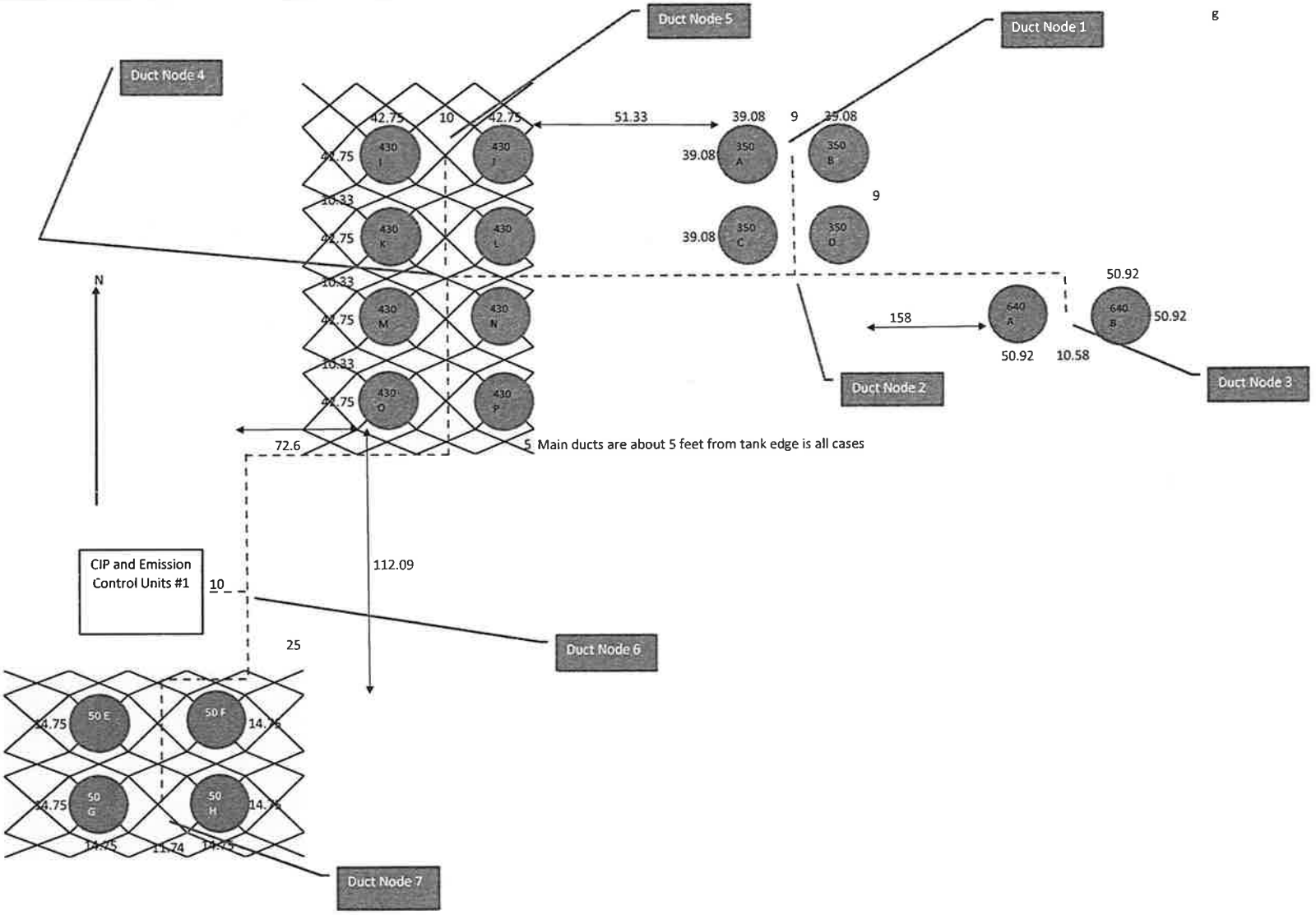
Ducting Layout Diagrams and Ducting Cost Estimates

Storage Tank Layout (Group 1)

A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross references the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

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 layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 18

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



Storage Ducting Costs (Group 1)

Connection Duct Sizing

Comments	Nominal Volume of the Tank in Gallons	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Tank fill Percentage Based on Red Fermentation	Maximum Gas Flow for Red Fermentation per 1000 Gallons Based on Kinetic Model	Operating Volume on the Tank in Gallons	Gas Flow Rate Based on Red Fermentations per Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting to Main Duct
350,000 Gallon Tanks	350000	54.04	4.00	216.16	40.00	69.65	80.00%	6.44	280,000	1,803	11.74	12.00	4.00	$10,500	$143.83	$41,590
640,000 Gallon Tanks	650000	60.75	2.00	121.50	40.00	129.02	80.00%	6.44	520,000	3,349	15.99	16.00	2.00	$5,250	$204.52	$30,099
	Gallons Under Storage		2,680,000												Sub Toal	$71,689

Main Ducting Sizing

Comments	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping. This is set at 50%	Gas Flows CFM Filling	Gas Flow at Ending Node CFM	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Adjusted Duct Size Inches	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
Two 640K Tanks	3	2	2.00	1	129.02	6,698	40.00	22.62	24	288	$397.67	$114,627
Four 350K Tanks	1	2	4.00	2	139.30	7,213	40.00	23.47	24	73	$397.67	$28,879
No Tanks Added	2	Emissions	6.00	3	268.32	13,910	40.00	32.60	32	25	$476.73	$11,918
											Knock Out Drum Eichleay	$46,000
											Structural Support Allowance	$100,000
											Sub Total	$301,424
											Redundant Duct for Cleaning	$0
											Total	**$373,113**

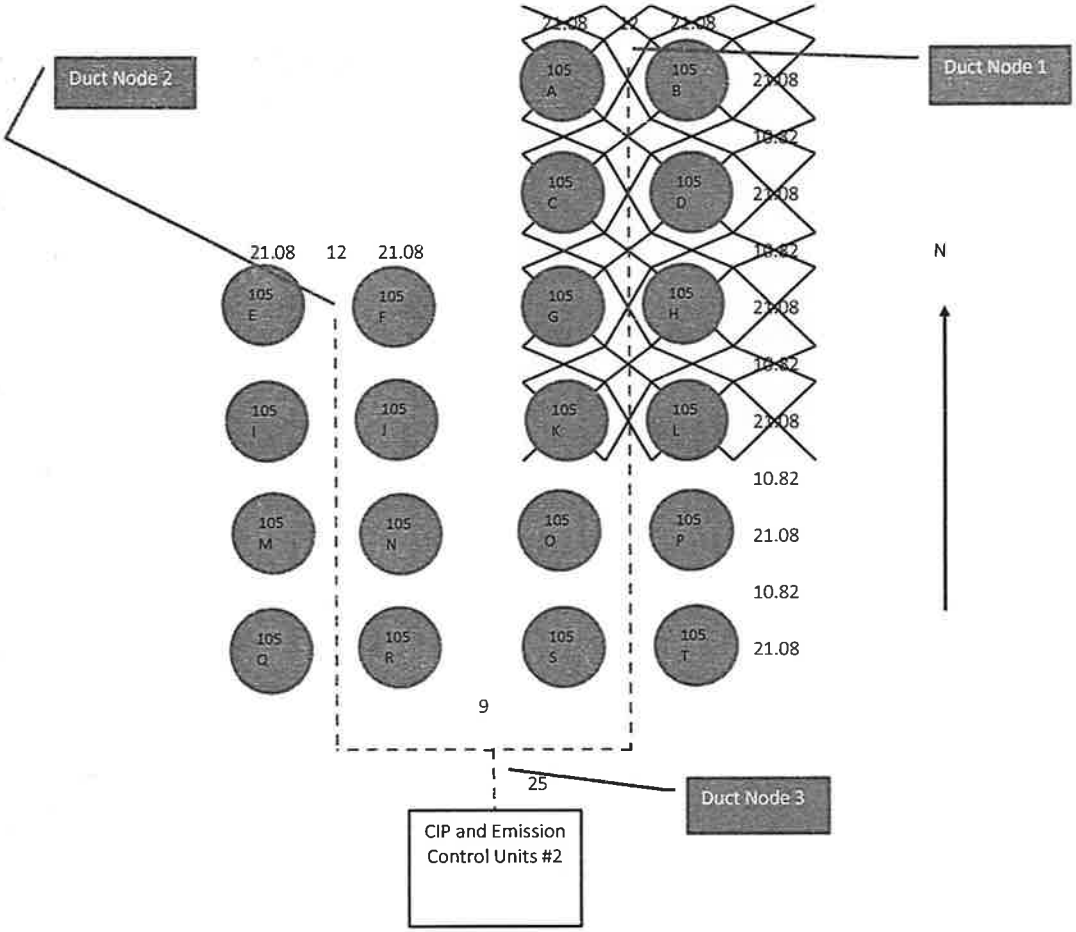
Since the red fermentation gas flow is much larger than the filling gas flow rate or the white fermentation gas flow rate; the red fermentation gas flow controls the duct size. Ducting Cost are estimated from the Eichleay 2005 work.

Storage Tank Layout (Group 2)

A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross references the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

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 layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 20

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



Storage Ducting Costs (Group 2)

Connection Duct Sizing

Comments	Nominal Volume of the Tank in Gallons	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Tank fill Percentage Based on Red Fermentation	Maximum Gas Flow for Red Fermentation per 1000 Gallons Based on Kinetic Model	Operating Volume on the Tank in Gallons	Gas Flow Rate Based on Red Fermentations per Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
105,000 Gallon Tanks	105,000	46.54	12.00	558.48	40.00	20.90	80.00%	6.44	84,000	541	6.43	8.00	12.00	$31,500	$103.25	$89,164
	Gallons Under Storage	1,365,000														

Main Ducting Sizing

Comments	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping. This is set at 50%	Gas Flows CFM	Gas Flow at Ending Node CFM	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Adjusted Duct Size Inches	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
Twelve 105K Tanks	1	3	4.00	2	41.79	2,164	40.00	12.86	22	53	$306.44	$16,241
Eight 105K Tanks	2	3	8.00	4	83.58	4,328	40.00	18.18	18	138	$251.38	$34,645
Twelve Tanks Total	3	Emissions	12.00	6	125.37	6,492	40.00	22.27	28	25	$476.73	$11,918
											Knock Out Drum Eichleay	$46,000
											Structural Support Allowance	$48,750
											Sub Total	$157,555
											Redundant Duct for Cleaning	$0
											Total	**$246,719**

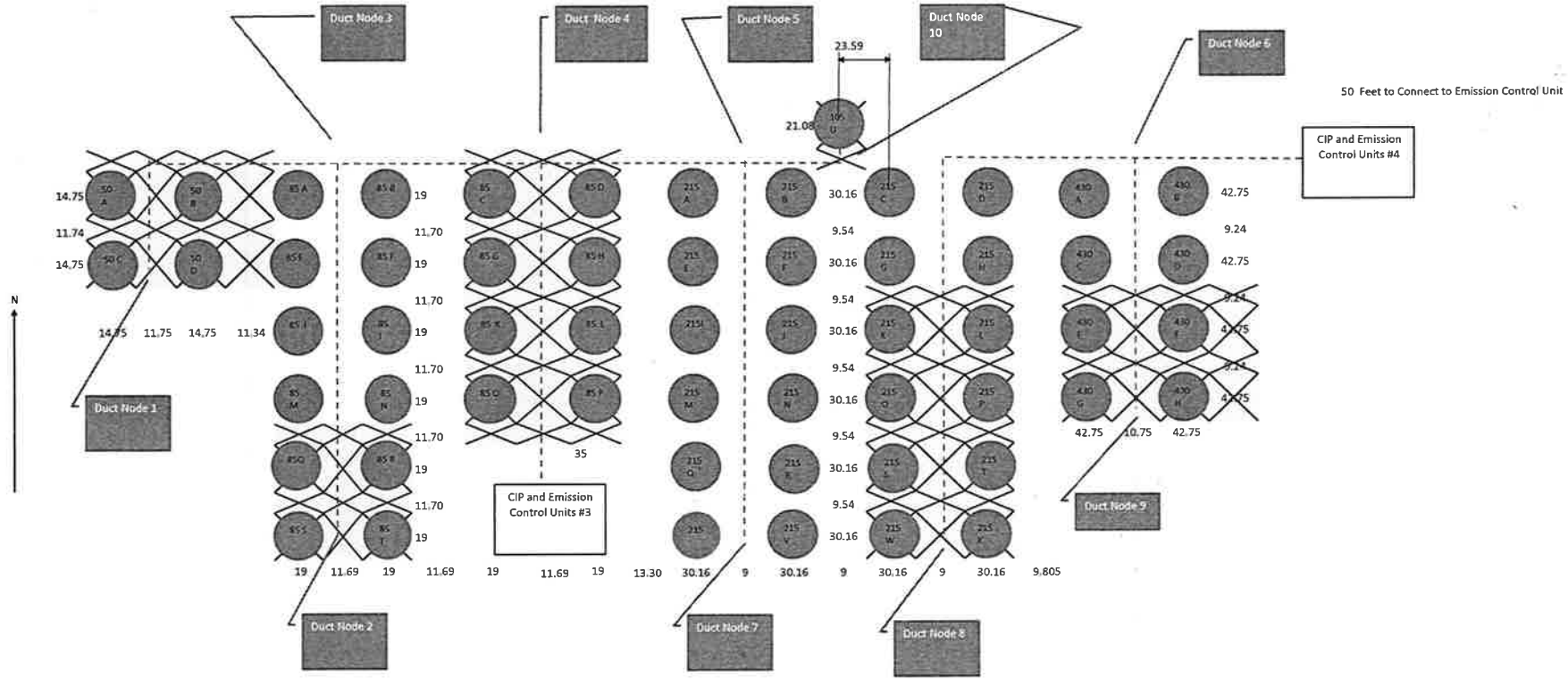
Since the red fermentation gas flow is much larger than the filling gas flow rate or the white fermentation gas flow rate; the red fermentation gas flow controls the duct size. Ducting Cost are estimated from the Eichleay 2005 work.

Storage Tank Layout (Groups 3a and 3b)

A temporary number is assigned to each tank for layout purposes, Gallo will supply a table that will cross references the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

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 layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 57

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



Storage Ducting Costs (Groups 3a and 3b)

Connection Duct Sizing

Comments	Nominal Volume of the Tank in Gallons	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Tank fill Percentage Based on Red Fermentation	Maximum Gas Flow for Red Fermentation per 1000 Gallons Based on Kinetic Model	Operating Volume on the Tank in Gallons	Gas Flow Rate Based on Red Fermentations per Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
50,000 Gallon Tanks	50,000	43.25	0.00	0.00	40.00	9.95	80.00%	6.44	40,000	258	4.44	6.00	0.00	$0	$62.17	$0
85,000 Gallon Tanks	85,000	54.85	8.00	438.76	40.00	16.92	80.00%	6.44	68,000	438	5.78	6.00	8.00	$21,000	$62.17	$48,278
215,000 Gallon Tanks	215,000	49.58	16.00	793.28	40.00	42.79	80.00%	6.44	172,000	1,108	9.20	10.00	16.00	$42,000	$144.33	$156,497
430,000 Gallon Tanks	430,000	56.75	4.00	227.00	40.00	85.57	80.00%	6.44	344,000	2,215	13.01	14.00	4.00	$10,500	$174.17	$50,037
Gallon Under Storage Emission Unit 3	3,800,000															
Gallon Under Storage Emission Unit 4	2,580,000															
															Sub Total	$254,812

Main Ducting Sizing

Comments	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping. This is set about 50%	Gas Flows CFM	Gas Flow at Ending Node CFM	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Nominal Duct Size diameter in inches (See comments)	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
Eight 430K Tanks	9	6	4.00	2	171.15	8,861	40.00	26.02	38	50	$548.46	$27,423
Twelve 215K Tanks	8	6	4.00	2	85.57	4,431	40.00	18.40	32	33	$476.73	$15,889
	6	Emission Control 4	8.00			13,292	40.00	31.87	48	98	$548.46	$53,817
Four 50K Tanks	1	3	4.00	2	19.90	1,030	40.00	8.87	10	0	$144.33	$0
Twelve 85K Tanks	2	3	12.00	6	101.49	5,255	40.00	20.04	20	112	$309.38	$34,650
Sixteen Tanks	3	4	16.00	8	121.39	6,285	40.00	21.91	22	61	$306.44	$18,693
One Tank	10	5	1.00			#REF!	40.00	#REF!	8	0	$103.25	$0
Twelve 215K Tanks	7	5	12.00	6	256.72	13,292	40.00	31.87	32	219	$476.73	$104,204
											2 Knock Out Drum Eichleay	$92,000
											Structural Support Allowance	$71,875
											Sub Total	$418,551
											Redundant Ducting	$0
											Total	**$673,363**

Since the red fermentation gas flow is much larger than the filling gas flow rate or the white fermentation gas flow rate; the red fermentation gas flow controls the duct size. Ducting Cost are estimated from the Eichleay 2005 work.

Attachment D2

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 E

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."

Mr. Steve Kidd
Vice President of Operations

08/12/16
Date

Appendix F

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 permit 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

Using the values in Sections VII.C.2 and VII.C.1 in the evaluation above, quarterly PE2 and quarterly PE1 can be calculated as follows:

N-1237-788 through '-795 (50,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 411 lb/year ÷ 4 qtr/year
= 102.75 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 73 lb/year ÷ 4 qtr/year
= 18.28 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	102.75	18.25	84.5

N-1237-796 through '-815 (85,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 699 lb/year ÷ 4 qtr/year
= 174.75 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 125 lb/year ÷ 4 qtr/year
= 31.25 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	174.75	31.25	143.5

N-1237-816 through '-836 (105,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 863 lb/year ÷ 4 qtr/year
= 215.75 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 154 lb/year ÷ 4 qtr/year
= 38.5 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	215.75	38.5	177.25

N-1237-837 through '-860 (215,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 1,766 lb/year ÷ 4 qtr/year
= 441.5 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 315 lb/year ÷ 4 qtr/year
= 78.75 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	441.5	78.75	362.75

N-1237-861 through '-864 (350,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 2,877 lb/year ÷ 4 qtr/year
= 719.25 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 514 lb/year ÷ 4 qtr/year
= 128.5 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	719.25	128.5	590.75

N-1237-865 through '-880 (430,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 3,534 lb/year ÷ 4 qtr/year
= 883.5 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 631 lb/year ÷ 4 qtr/year
= 157.75 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	883.5	157.75	725.75

N-1237-881 and '-882 (640,000 gallon fermentation and storage tanks):

$PE2_{quarterly}$ = $PE2_{annual}$ ÷ 4 quarters/year
= 4,977 lb/year ÷ 4 qtr/year
= 1,244.25 lb-VOC/qtr

$PE1_{quarterly}$ = $PE1_{annual}$ ÷ 4 quarters/year
= 657 lb/year ÷ 4 qtr/year
= 164.25 lb-VOC/qtr

Quarterly NEC [QNEC]			
Pollutant	**PE2 (lb/qtr)**	**PE1 (lb/qtr)**	**QNEC (lb/qtr)**
VOC	1,244.25	164.25	1,080

Appendix G

Draft ATCs N-1237-788-1 through '-882-1

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-788-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-788-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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

DRAFT

CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-789-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-789-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-789-1 Apr 12 2017 1:51PM -- BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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

DRAFT

CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-790-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-790-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-791-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-791-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-792-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-792-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-793-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-793-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
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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-1237-793-1 Apr 12 2017 1:51PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

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11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-794-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-794-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-794-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-795-1

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 50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-795-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 165 lb, and fourth quarter - 165 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-795-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 173.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 338 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-796-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-796-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-796-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-797-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-797-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-797-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-798-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-798-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-799-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-799-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-800-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-800-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-801-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK(TANK 85 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-801-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
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5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-801-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

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7. 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

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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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

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DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-802-1

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:
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CONDITIONS

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Seyed Sadredin, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services
N-1237-802-1 Apr 12 2017 1:52PM – BROWND : Joint Inspection NOT Required

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DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

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PERMIT NO: N-1237-803-1

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY
MAILING ADDRESS: ATTN: EHS MANAGER
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LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD
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EQUIPMENT DESCRIPTION:
MODIFICATION OF 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-803-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-803-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-804-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-804-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-804-1 : Apr 12 2017 1:52PM – BROWND : Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-805-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-805-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-805-1 Apr 12 2017 1:52PM -- BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-806-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-806-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-807-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-807-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-807-1 Apr 12 2017 1:52PM – BROWND Joint inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

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17. 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

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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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-808-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-808-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-808-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

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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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

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23. 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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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1237-809-1

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:
MODIFICATION OF 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

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-1237-809-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-810-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-810-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-810-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-811-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-811-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-811-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-812-1 **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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-812-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-812-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-813-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-813-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-814-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-814-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

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6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-815-1

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 85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-815-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 280 lb, and fourth quarter - 280 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-815-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 294.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 574 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-816-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-816-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-817-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-817-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-817-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-818-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-818-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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
21. 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
22. 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
23. 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, 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
24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
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27. All records shall be retained on-site for a period of 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-1237-819-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-819-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
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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-1237-819-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

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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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

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11. 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

12. 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

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17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-820-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-820-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-820-1 Apr 12 2017 1:52PM – BROWNO Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-821-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-821-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-821-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-822-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-822-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-822-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-823-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-823-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-823-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-824-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-824-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-825-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-825-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-825-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-826-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-826-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-826-1 Apr 12 2017 1:52PM -- BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-827-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-827-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-827-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-828-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-828-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-828-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-829-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-829-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-829-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-830-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-830-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-830-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-831-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-831-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

N-1237-831-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-832-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK EQUIPPED (TANK 105 Q) WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-832-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-833-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-833-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-833-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-834-1 **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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-834-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-834-1 Apr 12 2017 1:52PM -- BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-835-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-835-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-835-1 Apr 12 2017 1 52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-836-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-836-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 346 lb, and fourth quarter - 346 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-836-1 Apr 12 2017 1:52PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 709 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-837-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-837-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-837-1 Apr 12 2017 1:53PM -- BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-838-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-838-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-839-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-839-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-840-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-840-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-840-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-841-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-841-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-842-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-842-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-843-1 **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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-843-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-843-1 Apr 12 2017 1:53PM – BROWNO Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-844-1 **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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-844-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-844-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-845-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-845-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-845-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-846-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-846-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-846-1 Apr 12 2017 1:53PM – BROWND : Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-847-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-847-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-847-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-848-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-848-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-848-1 Apr 12 2017 1:53PM -- BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-849-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-849-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services
N-1237-849-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-850-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-850-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-850-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-851-1 **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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-851-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-851-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-852-1 **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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-852-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-852-1 Apr 12 2017 1:53PM -- BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-853-1 **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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-853-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-853-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-854-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-854-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-854-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-855-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-855-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-855-1 Apr 12 2017 1:53PM – BROWND : Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-856-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-856-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-857-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-857-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-857-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-858-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 V) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-858-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-858-1 Apr 12 2017 1:53PM -- BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-859-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 W) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-859-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-859-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-860-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-860-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 707 lb, and fourth quarter - 708 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-860-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

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11. 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

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. 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

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 1,451 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-861-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-861-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,152 lb, and fourth quarter - 1,152 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-861-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-862-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-862-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,152 lb, and fourth quarter - 1,152 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-862-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-863-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-863-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,152 lb, and fourth quarter - 1,152 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-863-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-864-1

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 STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-864-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,152 lb, and fourth quarter - 1,152 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-864-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. 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

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-865-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-865-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-865-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-866-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-866-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-866-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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
21. 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
22. 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
23. 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, 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
24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
26. 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
27. All records shall be retained on-site for a period of 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-1237-867-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-867-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-868-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-868-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services

N-1237-868-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-869-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-869-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-869-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-870-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-870-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-870-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-871-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-871-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-872-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-872-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

DRAFT

Arnaud Marjollet, Director of Permit Services

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-873-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-873-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-873-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-874-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-874-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-875-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-875-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-875-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

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17. 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

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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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-876-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-876-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
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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

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

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11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-877-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-877-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

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14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

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17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-878-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-878-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-878-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-879-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-879-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
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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-1237-879-1 Apr 12 2017 1:53PM – BROWND Joint Inspection NOT Required

6. 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] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

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23. 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

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-1237-880-1

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 430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-880-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 1,415 lb, and fourth quarter - 1,416 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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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. 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] Federally Enforceable Through Title V Permit

7. 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] Federally Enforceable Through Title V Permit

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] Federally Enforceable Through Title V Permit

9. 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

10. 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

11. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit

12. The annual VOC emissions from wine storage in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 1,487.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The annual VOC emissions from wine fermentation in this tank, calculated on a rolling 12-month basis, shall not exceed 2,903 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

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

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, 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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CONDITIONS CONTINUE ON NEXT PAGE

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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate for storage operations and for fermentation operations (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

22. If the emissions, throughput, 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 the 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-1237-881-1

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 640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-881-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 2,106 lb, and fourth quarter - 2,106 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-881-1 Apr 12 2017 1:54PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 2,214.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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-1237-882-1 **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 640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE: ADD RED AND WHITE WINE FERMENTATION SERVICE AND ESTABLISH A COMBINED ANNUAL VOC EMISSION LIMIT FROM THE 46 TANKS IN THE 2017 EASTSIDE CONSTRUCTION SPECIFIC LIMITING CONDITION (SLC) #2

CONDITIONS

1. The permittee shall not implement the changes authorized in this Authority to Construct (ATC) until a final Part 70 permit amendment is issued by the District. [District Rule 2520, 6.3] Federally Enforceable Through Title V Permit
2. ATC N-1237-882-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Prior to operating under the modifications authorized by this ATC, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 0 lb, 2nd quarter - 0 lb, 3rd quarter - 2,106 lb, and fourth quarter - 2,106 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4744-1, C-1404-1, S-4442-1, S-4727-1, S-4751-1, S-4769-1, S-4773-1, or S-4780-1 (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 ATC. [District Rule 2201] Federally Enforceable Through Title V Permit
5. {98} 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

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Arnaud Marjollet, Director of Permit Services
N-1237-882-1 Apr 12 2017 1:59PM – BROWND Joint Inspection NOT Required

6. For the purposes of this permit, the "2017 Eastside Construction SLC #2" shall consist of the following 46 winery tank permits: N-1237-796 through '-803; '-816 through '-827; '-837 through '-852; '-861 through '-864; '-865 through '-868; '-881; and '-882. [District Rule 2201] Federally Enforceable Through Title V Permit

7. 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

8. 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

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 Rules 2201 and 4694] Federally Enforceable Through Title V Permit

10. 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

11. 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

12. 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

13. 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

14. The daily VOC emissions from wine fermentation in this tank shall not exceed 2,214.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

15. The total combined annual VOC emissions from all wine fermentation and storage operations for all tanks within the 2017 Eastside Construction SLC #2, calculated on a rolling 12-month basis, shall not exceed 79,802 pounds. [District Rule 2201] Federally Enforceable Through Title V Permit

16. 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

17. 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

18. 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

19. 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

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CONDITIONS CONTINUE ON NEXT PAGE

20. 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 2017 Eastside Construction SLC #2 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

21. 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

22. 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

23. 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, 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

24. 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 calculated rolling 12-month wine ethanol content; and the calculated rolling 12-month VOC emission rate from the 2017 Eastside Construction SLC #2 (lb-VOC per rolling 12-month period, calculated monthly). [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

25. 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 or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year emissions and ethanol content are below the annual emissions and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit

26. 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

27. All records shall be retained on-site for a period of 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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