San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

JUL 0 6 2017

Mr. Jeff Beecher
Tricor Refining LLC
PO Box 5877
Bakersfield, CA 93310

Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # S-44
Project # 1160166

Dear Mr. Beecher:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Tricor Refining LLC at 1134 Manor St, Bakersfield, California.

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 the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. 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, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

Arnaud Marjollet
Director of Permit Services

Enclosures

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

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AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation
Tricor Refining LLC
S-44

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TITLE V PERMIT RENEWAL EVALUATION

Petroleum Refinery

Engineer: Richard Edgehill
Date: June 29, 2017

Facility Number:	S-44
Facility Name:	Tricor Refining LLC
Mailing Address:	PO Box 5877 Bakersfield, CA 93310
Contact Name:	Jeff Beecher
Phone:	(661) 393-7110
Responsible Official:	Joseph L. Frank
Title:	General Manager
Project # :	S-1160166

I. PROPOSAL

Tricor Refining LLC (Tricor) was issued a Title V permit on which was last renewed on January 3, 2012. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the last renewal of the Title V permit, which occurred on January 3, 2011.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

Tricor Refining LLC is located at 1134 Manor St in Bakersfield, California.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment C.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant does not propose to use any model general permit templates. Conditions from the existing template SJV-UM-0-3, contained within the Facility Wide Requirements will continue to be used.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit S-34-0-3. (SJV-UM-0-3)

All other federally enforceable conditions in this Title V permit will be subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated Since January 3, 2011

- District Rule 2020, Exemptions
  (Amended December 18, 2014)

- District Rule 2201, New and Modified Stationary Source Review Rule
  (Amended February 18, 2016)

- District Rule 4621 Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, And Bulk Plants (Amended 12/19/13)

- District Rule 4622 Gasoline Transfer Into Motor Vehicle Fuel Tanks (Amended 12/19/13)

- District Rule 4702, Internal Combustion Engines
  (Amended November 14, 2013)

- 40 CFR Part 60, Subpart J, Standards of Performance for Petroleum Refineries
  (Amended September 12, 2012 ⇒ Amended December 1, 2015)

- 40 CFR Part 60, Subpart Ja, Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007
  (Amended September 12, 2012 ⇒ Amended July 13, 2016)

- 40 CFR Part 60 Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (1/20/11 and 2/16/2012)

- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
  (Amended February 27, 2014)

- 40 CFR Part 64, Compliance Assurance Monitoring

- 40 CFR Part 60, Subpart UU, Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture
  (Amended February 27, 2014)

B. Rules Removed

There are no applicable rules that were removed since the last Title V renewal.

C. Rules Added Since January 3, 2011

There are no applicable rules that were added since the last Title V renewal.

D. Rules Not Updated Since January 3, 2011

- District Rule 1080, Stack Monitoring
  (Amended December 17, 1992)
- District Rule 1081, Source Sampling
  (Amended December 17, 1992)
- District Rule 1100, Equipment Breakdown
  (Amended December 17, 1992)
- District Rule 2010, Permits Required
  (Amended December 17, 1992)
- District Rule 2031, Transfer of Permits
  (Amended December 17, 1992)
- District Rule 2040, Applications
  (Amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications
  (Amended December 17, 1992)
- District Rule 2080, Conditional Approval
  (Amended December 17, 1992)
- District Rule 2410, Prevention of Significant Deterioration
  (Adopted June 16, 2011)
- District Rule 2520, Federally Mandated Operating Permits
  (Amended June 21, 2001)
- District Rule 4101, Visible Emissions
  (Amended February 17, 2005)

- District Rule 4201, Particulate Matter Concentration (Amended December 17, 1992)
- District Rule 4202, Particulate Matter–Emission Rate (Amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (Amended December 17, 1992)
- District Rule 4304, Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters (October 19, 1995)
- District Rule 4305, Boilers, Steam Generators, and Process Heaters–Phase 2 (Amended August 21, 2003)
- District Rule 4306, Boilers, Steam Generators and Process Heaters – Phase 3 (Amended October 16, 2008)
- District Rule 4307, Boilers, Steam Generators and Process Heaters – 2 MMBtu/hr – 5 MMBtu/hr (Amended April 21, 2016)
- District Rule 4311, Flares, (Amended June 18, 2009)
- District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators and Process Heaters greater than 5.0 MMBtu/hr (Adopted October 16, 2008)
- District Rule 4351, Boilers Steam Generators, and Process Heaters – Phase 1 (Amended August 21, 2003)
- District Rule 4454, Refinery Process Turnaround (Adopted 12/17/92)
- District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (Adopted 4/20/05)
- District Rule 4601, Architectural Coatings (Amended December 17, 2009)

- District Rule 4623, Storage of Organic Liquids
(Amended May 19, 2005)

- District Rule 4624, Transfer of Organic Liquid
(Amended December 20, 2007)

- District Rule 4625, Wastewater Separators (Amended 12/15/11)

- District Rule 4641, Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenanace Operations (Adopted 12/17/92)

- District Rule 4701, Internal Combustion Engines – Phase 1
(Amended August 21, 2003)

- District Rule 4801, Sulfur Compounds (Amended December 17, 1992)

- District Rule 7012, Hexavalent Chromium – Cooling Towers (Adopted December 17, 1992)

- District Rule 8011, Fugitive Dust General Requirements
(Amended August 19, 2004)

- District Rule 8021, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Construction, Demolition, Excavation, and Extraction Activities
(Amended August 19, 2004)

- District Rule 8031, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Handling and Storage of Bulk Materials
(Amended August 19, 2004)

- District Rule 8041, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Carryout and Trackout
(Amended August 19, 2004)

- District Rule 8051, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Open Area
(Amended August 19, 2004)

- District Rule 8061, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Paved and Unpaved Roads
(Amended August 19, 2004)

- District Rule 8071, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Unpaved Vehicle/Equipment Areas (Amended September 16, 2004)

- 40 CFR Part 60 Subpart K—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (10/17/2000)

- 40 CFR Part 60 Subpart Kb—Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/03)

- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (Amended July 20, 2004)

- 40 CFR Part 60, Subpart GGGa, Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (Amended June 2, 2008)

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable through Title V Permit".

For this facility, the following are not federally enforceable and will not be discussed in further detail:

A. Rules Added/Updated

None

B. Rules Not Updated

District Rule 4102, Nuisance (as amended December 17, 1992)

Condition 41 of permit unit S-34-0-3 is based on District Rule 4102 and will therefore not be discussed any further.

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit or most recent renewal of the Title V permit.

A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation.

B. District Rule 2201 - New and Modified Stationary Source Review Rule (NSR)

District Rule 2201 has been amended since this facility's renewed Title V permit was issued. This Title V permit renewal does not constitute a modification per Section 3.26, defined as an action including at least one of the following items:

1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
4) Addition of any new emissions unit which is subject to District permitting requirements.
5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable at this time.

Authority to Construct S-44-4-19 was subject to the NSR Rule at the time the applicant applied for the Authority to Construct (ATC). The following conditions from the Authorities to Construct S-44-4-19, issued by SJVAPCD on 6/1/16,

will be used to define how NSR permit terms should be incorporated into the Title V permit.

ATC S-44-4-19

MODIFICATION OF DORMANT 4.5 MMBTU/HR LUBE OIL FINISHING PLANT - UTILITY FRACTIONATOR INCLUDING THREE ATMOSPHERIC COLUMN NOS. D-11, D-21, & D-31, STANDBY HEATER NOS. 11, 21, & 31, AND HEAT OIL EXCHANGER NOS. E 551, E-552, & E-553: INSTALL CLEARSIGN DUPLEX BURNER ARCHITECTURE IN HEATER #21, INCREASE RATING TO 15 MMBTU/HR, REDUCE NOX TO 6 PPMV @ 3% O2, REMOVE DORMANT STATUS, AND REVISE SLC TO INCLUDE ONLY HEATERS #11 AND #31

Emissions from Heater #21 shall not exceed any of the following limits: 6 ppmv NOx @ 3% O2 or 0.007 lb-NOx/MMBtu, 50 ppmv CO @ 3% O2 or 0.037 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 PM10/MMBtu, or 0.00285 lb-SOx/MMBtu. [District Rule 2201] Y

C. District Rule 2520 - Federally Mandated Operating Permits

No changes to this Rule have occurred since issuance of the previous TV permit; however, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

Greenhouse Gas Discussion

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

D. Rule 4621 Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants

District Rule 4621 applies to gasoline storage containers located at bulk plants with capacities greater than 250 gallons and less than 19,800 gallons; to other stationary gasoline storage containers with capacities greater than 250 gallons; to those gasoline storage containers that are not subject to the control requirements of District Rule 4623 (Storage of Organic Liquids); and to gasoline delivery vessels.

This rule was amended on 12/19/2013. The amendment changed requirements for aviation gasoline bulk loading. Tricor does not bulk load

aviation gasoline. Therefore, no change to their permits is required as a result of the amendments and continued compliance with this rule is expected

E. District Rule 4702 - Internal Combustion Engines – Phase II

The purpose of District Rule 4702 is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines.

This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower.

This rule was amended on 11/14/13. The purpose of the 11/14/13 amendment was to make administrative updates to rule language to clarify existing rule requirements and by adding a line item to Table 2 to clarify NOx limits for lean-burn waste gas fired engines used exclusively in non-Agricultural Operations (Non-AO). This rule amendment did not change existing emissions limits.

Therefore, this facility's IC engines are in compliance with this rule and continued compliance is expected

F. 40 CFR Part 60 Subpart Dc Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

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. 40 CFR Part 60, Subpart Dc applies to Small Industrial-Commercial-Industrial Steam Generators between 10 MMBtu/hr and 100 MMBtu/hr (post-6/9/89 construction, modification or, reconstruction). Subpart Dc has standards for SO_x and PM_{10}. The facility's 99.9 MMBtu/hr natural gas-fired boiler (S-44-5) is subject to the Subpart.

This subpart was amended on 1/20/11 and 2/16/12.

The 1/20/11 amendment revised the PM testing methods; the 2/16/12 amendment revided PM emission monitoring requirements. The facility's boiler S-44-5 is gas-fired and therefore, not subject to the PM testing and monitoring requirements. No change to the permits is required as a result of the amendments; ttherefore, continued compliance with this regulation is expected

G. 40 CFR Part 60, Subpart J, Standards of Performance for Petroleum Refineries (Amended 9/12/12, 12/1/15)

The provisions of this subpart are applicable to the following affected facilities in petroleum refineries: fluid catalytic cracking unit catalyst regenerators, fuel gas combustion devices, and all Claus sulfur recovery plants except Claus plants with a design capacity for sulfur feed of 20 long tons per day (LTD) or less.

Any fluid catalytic cracking unit catalyst regenerator or fuel gas combustion device under paragraph (a) of this section other than a flare which commences construction, reconstruction or modification after June 11, 1973, and on or before May 14, 2007, or any fuel gas combustion device under paragraph (a) of this section that is also a flare which commences construction, reconstruction or modification after June 11, 1973, and on or before June 24, 2008, or any Claus sulfur recovery plant under paragraph (a) of this section which commences construction, reconstruction or modification after October 4, 1976, and on or before May 14, 2007, is subject to the requirements of this subpart except as provided under paragraphs (c) through (e) of this section.

This subpart was amended on 9/12/12 and 12/1/15.

The 9/12/12 amendment revised wording in the applicability section which designated "affected facility", allowed owners to comply with subpart Ja to satisfy subpart J, revised the definition of "fuel gas" and revised test method wording. No change to the permits is required as a result of the amendments; therefore, continued compliance with this regulation is expected.

The 12/1/15 amendment revised sections pertaining to fuel gas testing. No change to the permits is required as a result of the amendments; ttherefore, continued compliance with this regulation is expected

H. 40 CFR Part 60, Subpart Ja – Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

The provisions of this subpart apply to the following affected facilities in petroleum refineries: fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices, including flares and process heaters, and sulfur recovery plants. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery. Except for flares, the provisions of this subpart apply only to affected facilities which commence construction, modification, or

reconstruction after May 14, 2007. For flares, the provisions of this subpart apply only to flares which commence construction, modification, or reconstruction, after June 24, 2008.

Refinery Heater # 21 is a fuel gas combustion device that was modified in project 1153379 (ATC S-44-4-19). The Subpart Ja sulfur dioxide standard (60.102a(g)(1)) is 20 ppmv SO_2 (dry basis, corrected to 0-percent excess air) on a 3 hour rolling average or 8 ppmv SO_2 (dry basis, corrected to 0-percent excess air) determined daily on a 365 successive calendar day rolling average or fuel gas that contains H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis. ATC S-44-4-19 will be incorporated into the Title V PTO in this project and includes the provisions of Subpart Ja.

I. 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This subpart applies to owners and operators of stationary compression ignition (CI) internal combustion engines (ICEs) that commence construction, modify, or reconstruct their stationary CI ICEs after July 11, 2005.

The facility does not have any CI ICE that are subject to this subpart and the 2/27/14 amendment does not affect applicability of this regulation.

J. 40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

This subpart applies to owners and operators of stationary spark ignition (SI) internal combustion engines (ICEs) that commence construction, modify, or reconstruct their stationary SI ICEs after June 12, 2006.

The facility does not have any SI ICEs that are subject to this subpart and therefore the 2/27/14 amendment does not affect applicability of this regulation.

K. 40 CFR Part 63, Subpart UUU—National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (12/1/15, 7/13/16)

This subpart establishes national emission standards for hazardous air pollutants (HAP) emitted from petroleum refineries. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and work practice standards. The rule was amended in February 9, 2005

§63.1561(a) This subpart applies to a petroleum refinery that is located at a major source of hazardous air pollutant (HAP) emissions.

A major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

Tricor is not a Major HAPs source.
Therefore, the facility is not subject to the requirements of this rule.

L. 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended 2/27/2014)

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

The 2/27/14 amendment included revisions to clarify that a heated probe is not necessary when using ASTM D6522 to measure oxygen or carbon dioxide concentrations. The requirement to use Method 1 or 1A for sampling site and sampling point selection in testing gaseous emissions from engines with smaller ducts is deleted, and single- or three-point sampling, depending on duct size, is added.

These amendments do not affect the facility's IC engines subject to Subpart ZZZZ. No further discussion is required.

M. 40 CFR Part 63,Subpart DDDDD -- National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (1/31/13 and 11/20/15)

This subpart applies to an industrial, commercial, or institutional boiler or process heater as defined that is located at, or is part of, a major source of HAP.

A major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year.

Tricor is not a Major HAPS Stationary Source.

Therefore, the affected facilities in this source are not subject to the requirements of this rule.

N. 40 CFR Part 63,Subpart JJJJJJ -- National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (2/1/13 and 9/14/16)

This subpart applies to an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP).

§63.11195(e) states that gas-fired boilers are not subject to this subpart.

The boiler at the facility is gas-fired and therefore, not subject to this Subpart.

O. 40 CFR Part 82, Subparts B and F, Stratospheric Ozone

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). Sections of this regulation were amended in 2013, and Conditions #27 and #28 of S-33-0-3 assure compliance with the requirements.

P. 40 CFR Part 64 - Compliance Assurance Monitoring(CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

1) the unit must have an emission limit for the pollutant;
2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

Major Source Thresholds (12/18/08 Revision of Rule 2201)

Pollutant	lb/year	ton/year
NOx	20,000	10
SOx	140,000	70
PM10	140,000	70
CO	200,000	100
VOC	20,000	10

This regulation was last amended on 10/22/97; however, the Rule 2201 Major Source thresholds for NOx and VOC were lowered from 50,000 to 20,000

lb/year via the 12/18/08 amendment to Rule 2201 (the amended rule was not effective till 6/10/10). The facility's permits were evaluated for CAM purposes in the previous Title V renewal using the 20,000 lb/year NOx and VOC thresholds. Consequently, a CAM discussion is not required for these units.

H. 40 CFR Part 64 - Compliance Assurance Monitoring (CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring for units that meet the following three criteria:

1) The unit must have an emission limit for the pollutant;
2) The unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
3) The unit must have a pre-control potential to emit of greater than the major source thresholds.

Pollutant	Major Source Threshold (lb/year)
NO_X	20,000
SO_X	140,000
PM_{10}	140,000
CO	200,000
VOC	20,000

§64.1 defines a control device as equipment, other than inherent process equipment, that is used to destroy or remove air pollutants prior to discharge to the atmosphere.

a. S-34-1-18 (Crude Unit with 96 MMBtu/hr Heater H-100):
This unit is equipped with SCR, which is an add-on control for NO_x. However, this unit is also equipped with a continuous emissions monitoring system (CEMS) for NO_x. Pursuant to 40 CFR 64.2(b)(vi), this CEMS meets the definition of a continuous compliance determination method and is exempt from the CAM requirements.

b. S-34-6-10 (Claus Sulfur Recovery Unit):
The sulfur recovery plant meets the definition of an add-on control device for CAM purposes. However, the sulfur recovery unit is required by NSPS Subpart J to have a continuous SO_x monitoring system, which qualifies as a continuous compliance determination method. Therefore, this unit is exempt from CAM.

c. S-34-11-11 (Flare):
The flare qualifies as an add-on control device for VOC for the pressure relief valves on various process units. However, there is no VOC emission limit associated with the flare or the pressure relief valves. Therefore, this unit is not subject to CAM.

d. S-34-42-9 (Boiler 81-H12):
This boiler is equipped with flue gas recirculation (FGR), which is an add-on control for NO_x. It is subject to NO_x emission limits in conditions 4 and 5 of the proposed Permit to Operate. Finally, this unit has post-control potential emissions of 25,299 lb-NO_x/yr, which exceeds the major source threshold for NO_x. Since this unit meets all three criteria of 40 CFR 64, it is subject to the CAM requirements.

40 CFR 60(b)(4)(ii) requires, for units with post-control potential emissions exceeding the major source threshold, that data be collected at four equally spaced times each hour (essentially, every fifteen minutes). However, this section also authorizing the permitting authority to approve less frequent data collection if appropriate for the pollutant-specific emissions unit. §60(b)(4)(iii) specifies that some data must be collected at least once per 24-hour period. The District has determined that flue gas recirculation is a robust and well-understood process for NO_x reduction that is not likely to result in significant variations in post-control emissions over time, particularly when the unit is combusting a relatively homogenous fuel like natural gas or refinery gas. Furthermore, the FGR valve is adjusted and set manually based on the boiler load, rather than being automatically controlled, so

the FGR rate will not vary substantially over time. Therefore, Alon Bakersfield will be required to collect CAM data for this unit on a daily basis.

The District has verified that conditions 75 through 80 on the proposed Permit to Operate will ensure continued compliance with the CAM requirements.

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

The applicant does not propose to use any additional model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any permit shields for this renewal.

C. Obsolete Permit Shields From Existing Permit Requirements

No obsolete permit shields were removed from permit as a result of amended rules.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility

nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

ATTACHMENTS

A. Draft Renewed Title V Operating Permit
B. Previous Title V Operating Permit
C. Detailed Summary List of Facility Permits

Tricor Refining LLC
S-44
S-1160166

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley
Air Pollution Control District

FACILITY: S-44-0-3 **EXPIRATION DATE:** 08/31/2016

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FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

9. {4370} 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] Federally Enforceable Through Title V Permit

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit

12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit

13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit

14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit

15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit

16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit

17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit

18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit

19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit

20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit

21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

22. {4383} 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 (02/17/05). 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, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit

24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit

25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit

26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit

27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit

28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit

29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit

30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit

31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit

32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit

33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit

35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit

37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit

38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit

39. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

42. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit

43. A component shall be considered leaking if one or more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of District Rule 4455 (adopted 4/20/05) exist at the facility. A leak is the dripping of VOC-containing liquid or the detection of a concentration of total organic compound, above background, determined according to the test method specified in Section 6.4.1 that exceeds the limits in Table 1, Sections 3.22.1 and Section 3.22.2 of District Rule 4455. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from a component into a container is not considered a leak provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 3.22] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

44. The operator shall not use any component that leaks in excess of the allowable leak standards of District Rule 4455 (adopted 4/20/05), or is found to be in violation of the provisions specified in Section 5.1.3. A component identified as leaking in excess of an allowable leak standard may be used provided it has been identified with a tag for repair, has been repaired, or is awaiting re-inspection after repair, within the applicable time period specified within the rule. [District Rule Rule 4455, 5.1.1] Federally Enforceable Through Title V Permit

45. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 5.1.2] Federally Enforceable Through Title V Permit

46. The operator shall be in violation of Rule 4455 (adopted 4/20/05) if any District inspection demonstrates that one or more of the conditions in Sections 5.1.4 exist at the facility. [District Rule 4455, 5.1.3.1] Federally Enforceable Through Title V Permit

47. Except for annual operator inspection described in Section 5.1.3.2.3, District Rule 4455 (adopted 4/20/05), any operator inspection that demonstrates that one or more of the conditions in Section 5.1.4, District Rule 4455, exist at the facility shall not constitute a violation of District Rule 4455 if the leaking components are repaired as soon as practicable but not later than the time frame specified in District Rule 4455. Such components shall not be counted towards determination of compliance with the provisions of Section 5.1.4. [District Rule 4455, 5.1.3.2.1] Federally Enforceable Through Title V Permit

48. Leaking components detected during operator inspection pursuant Section 5.1.3.2.1, District Rule 4455 (adopted 4/20/05) that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in District Rule 4455 shall be counted toward determination of compliance with the provisions of Section 5.1.4. [District Rule 4455, 5.1.3.2.2] Federally Enforceable Through Title V Permit

49. Any operator inspection conducted annually for a component type (including operator annual inspections pursuant to Section 5.2.5, 5.2.6, 5.2.7, or 5.2.8) that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall constitute a violation of District Rule 4455 (adopted 4/20/05) regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in District Rule 4455. [District Rule 4455, 5.1.3.2.3] Federally Enforceable Through Title V Permit

50. The operator shall audio-visually inspect for leaks all accessible operating pumps, compressors, and Pressure Relief Devices (PRDs) in service at least once every 24 hours, except when operators do not report to the facility for that given 24 hours. Any identified leak that cannot be immediately repaired shall be reinspected within 24 hours using a portable analyzer. If a leak is found, it shall be repaired as soon as practical but not later than the time frame specified in Table 3 of District Rule 4455 (adopted 4/20/05). [District Rule 4455, 5.2.1 & 5.2.2] Federally Enforceable Through Title V Permit

51. The operator shall inspect all components at least once every calendar quarter, except for inaccessible components, unsafe-to-monitor components and pipes. Inaccessible components, unsafe-to-monitor components and pipes shall be inspected in accordance with the requirements set forth in Sections 5.2.5, 5.2.6, and 5.2.7, District Rule 4455 (adopted 4/20/05). New, replaced, or repaired fittings, flanges and threaded connections shall be inspected immediately after being placed into service. Components shall be inspected using EPA Method 21. [District Rule 4455, 5.2.3, 5.2.4, 5.2.5, 5.2.6 & 5.2.7] Federally Enforceable Through Title V Permit

52. The operator may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually for a component type, provided the operator meets all the criteria specified in Sections 5.2.8.1 through 5.2.8.3, District Rule 4455 (adopted 4/20/05). This approval shall apply to accessible component types, specifically designated by the APCO, except pumps, compressors, and PRDs which shall continue to be inspected on a quarterly basis. [District Rule 4455, 5.2.8] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

53. An annual inspection frequency approved by the APCO shall revert to quarterly inspection frequency for a component type if either the operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2 and 5.3 of District Rule 4455 (adopted 4/20/05) exists for that component type, or the APCO issued a Notice of Violation for violating any of the provisions of District Rule 4455 during the annual inspection period for that component type. When the inspection frequency changes from annual to quarterly inspections, the operator shall notify the APCO in writing within five (5) calendar days after changing the inspection frequency, giving the reason(s) and date of change to quarterly inspection frequency. [District Rule 4455, 5.2.9 & 5.2.10] Federally Enforceable Through Title V Permit

54. The operator shall initially inspect a process PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the time of the release. To insure that the process PRD is operating properly, and is leak-free, the operator shall re-inspect the process PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the release using EPA Method 21. If the process PRD is found to be leaking at either inspection, the PRD leak shall be treated as if the leak was found during quarterly operator inspections. [District Rule 4455, 5.2.11] Federally Enforceable Through Title V Permit

55. Except for process PRD, a component shall be inspected within 15 calendar days after repairing the leak or replacing the component using EPA Method 21. [District Rule 4455, 5.2.12] Federally Enforceable Through Title V Permit

56. Upon detection of a leaking component, the operator shall affix to that component a weatherproof readily visible tag that contains the information specified in Section 5.3.3 of District Rule 4455 (adopted 4/20/05). The tag shall remain affixed to the component until the leaking component has been repaired or replaced; has been re-inspected using EPA Method 21; and is found to be in compliance with the requirements of District Rule 4455. [District Rule 4455, 5.3.1 5.3.2 and 5.3.3] Federally Enforceable Through Title V Permit

57. An operator shall minimize all component leaks immediately to the extent possible, but not later than one (1) hour after detection of leaks in order to stop or reduce leakage to the atmosphere. [District Rule 4455, 5.3.4] Federally Enforceable Through Title V Permit

58. If the leak has been minimized but the leak still exceeds the applicable leak standards of District Rule 4455 (adopted 4/20/05), an operator shall repair or replace the leaking component, vent the leaking component to a closed vent system, or remove the leaking component from operation as soon as practicable but not later than the time period specified in Table 3. For each calendar quarter, the operator may be allowed to extend the repair period as specified in Table 3, for a total number of leaking components, not to exceed 0.05 percent of the number of components inspected, by type, rounded upward to the nearest integer where required. [District Rule 4455, 5.3.5] Federally Enforceable Through Title V Permit

59. If the leaking component is an essential component or a critical component and which cannot be immediately shut down for repairs, the operator shall minimize the leak within one hour after detection of the leak. If the leak has been minimized, but the leak still exceeds any of the applicable leak standards of District Rule 4455 (adopted 4/20/05), the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4455 5.3.6] Federally Enforceable Through Title V Permit

60. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or any combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall comply with at least one of the requirements specified in Sections 5.3.7.1, 5.3.7.2, 5.3.7.3, or 5.3.7.4 of District Rule 4455 (adopted 4/20/05) by the applicable deadlines specified in Sections 5.3.7.5 and 5.3.7.6. If the original leaking component is replaced with a new like-in-kind component before incurring five repair actions for major leaks within 12-consecutive months, the repair count shall start over for the new component. An entire compressor or pump need not be replaced provided the compressor part(s) or pump part(s) that have incurred five repair actions as described in Section 5.3.7 are brought into compliance with at least one of the requirements of Sections 5.3.7.1 through 5.3.7.6. [District Rule 4455, 5.3.7] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

61. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the APCO that enables an operator or District personnel to locate each individual component. The operator shall replace tags or labels that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. The operator shall comply with the requirements of Sections 6.1.4 of District Rule 4455 (adopted 4/20/05) if there is any change in the description of major components or critical components. [District Rule 4455, 5.5.1 & 5.5.2] Federally Enforceable Through Title V Permit

62. The operator shall keep a copy of the operator management plan at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved operator management plan. [District Rule 4455, 6.1.2 & 6.1.4] Federally Enforceable Through Title V Permit

63. The operator shall maintain an inspection log containing, at a minimum, 1) total number of components inspected, and total number and percentage of leaking components found by component types, 2) location, type, name or description of each leaking component, and description of any unit where the leaking component is found, 3) date of leak detection and method of leak detection, 4) for gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak, 5) date of repair, replacement, or removal from operation of leaking components, 6) identification and location of essential component and critical components found leaking that cannot be repaired until the next process unit turnaround or not later one year after leak detection, whichever comes earlier, 7) methods used to minimize the leak from essential components and critical components that cannot be repaired until the next process unit turnaround or not later one year after leak detection, whichever comes earlier, 8) after the component is repaired or is replaced, the date of reinspection and the leak concentration in ppmv, 9) inspector's name, business mailing address, and business telephone number, and 10) the facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log. [District Rule 4455, 6.2.1] Federally Enforceable Through Title V Permit

64. Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, analyzer reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration. [District Rule 4455, 6.2.3] Federally Enforceable Through Title V Permit

65. The operator shall notify the APCO, by telephone or other methods approved by the APCO, of any process PRD release described in Sections 5.4.4 and 5.4.5 of District Rule 4455 (adopted 4/20/05) and any release in excess of the reportable quantity limits as stipulated in 40 CFR, Part 117, Part 302 and Part 355, including any release in excess of 100 pounds of VOC, within one hour of such occurrence or within one hour of the time said person knew or reasonably should have known of its occurrence. [District Rule 4455, 6.3.1] Federally Enforceable Through Title V Permit

66. Copies of all records shall be retained for a minimum of five (5) years after the date of an entry. Such records shall be made available to the APCO, ARB, or US EPA upon request. [District Rule 4455, 6.2.2, 6.2.3 & 6.2.4] Federally Enforceable Through Title V Permit

67. Measurements of gaseous leak concentrations shall be conducted according to US EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in US EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. [District Rule 4455, 6.4.1] Federally Enforceable Through Title V Permit

68. The VOC content shall be determined using American Society of Testing and Materials (ASTM) D 1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4455, 6.4.2] Federally Enforceable Through Title V Permit

69. The percent by volume liquid evaporated at 150 °C shall be determined using ASTM D 86. [District Rule 4455, 6.4.3] Federally Enforceable Through Title V Permit

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70. For a given process unit, an owner or operator may elect to comply with the requirements of §60.592 (b)(1), (2), or (3) as an alternative to the requirements in §60.482-7. [40 CFR 60.592(b)] Federally Enforceable Through Title V Permit

71. Compressors in hydrogen service are exempt from the requirements of §60.592 if an owner or operator demonstrates that a compressor is in hydrogen service. [40 CFR 60.593(b)(1)] Federally Enforceable Through Title V Permit

72. Each compressor is presumed not to be in hydrogen service unless an owner or operator demonstrates that the piece of equipment is in hydrogen service. For a piece of equipment to be considered in hydrogen service, it must be determined that the percent hydrogen content can be reasonably expected always to exceed 50 percent by volume. For purposes of determining the percent hydrogen content in the process fluid that is contained in or contacts a compressor, procedures that conform to the general method described in ASTM E260-73, 91, or 96, E168-67, 77, or 92, or E169-63, 77, or 93 (incorporated by reference as specified in §60.17) shall be used. [40 CFR 60.593(b)(2)] Federally Enforceable Through Title V Permit

73. An owner or operator may use engineering judgment rather than procedures in §60.593(b)(2) to demonstrate that the percent content exceeds 50 percent by volume, provided the engineering judgment demonstrates that the content clearly exceeds 50 percent by volume. When an owner or operator and the Administrator do not agree on whether a piece of equipment is in hydrogen service, however, the procedures in §60.593(b)(2) shall be used to resolve the disagreement. If an owner or operator determines that a piece of equipment is in hydrogen service, the determination can be revised only after following the procedures in §60.593(b)(2). [40 CFR 60.593(b)(3)] Federally Enforceable Through Title V Permit

74. Any existing reciprocating compressor that becomes an affected facility under provisions of §60.14 or §60.15 is exempt from §60.482-3(a), (b), (c), (d), (e), and (h) provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of §60.482-3(a), (b), (c), (d), (e), and (h). [40 CFR 60.593(c)] Federally Enforceable Through Title V Permit

75. An owner or operator may use the following provision in addition to §60.485(e): Equipment is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM Method D86-78, 82, 90, 95, or 96 (incorporated by reference as specified in §60.17). [40 CFR 60.593(d)] Federally Enforceable Through Title V Permit

76. Open-ended valves or lines containing asphalt as defined in §60.591 are exempt from the requirements of §60.482-6(a) through (c). [40 CFR 60.593(f)] Federally Enforceable Through Title V Permit

77. Light liquid service shall mean the equipment contains a liquid that meets all of the following conditions: (a) the vapor pressure of one or more of the components is greater than 0.3 kPa at 20 °C as determined by ASTM D 2879, (b) the total concentration of the pure components having a a vapor pressure greater than 0.3 kPa at 20 °C is equal to or greater than 20 percent by weight, and (c) the fluid is a liquid at operating conditions. In addition, an owner or operator may use the following provision: an equipment is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM D 86. [40 CFR 60.485(e) and 60.593(d)] Federally Enforceable Through Title V Permit

78. Gas/vapor service shall mean the equipment contains process fluids that is in the gaseous state at operating conditions. [40 CFR 60.481] Federally Enforceable Through Title V Permit

79. Heavy liquid service shall mean the equipment is not in gas/vapor service or in light liquid service. [40 CFR 60.481] Federally Enforceable Through Title V Permit

80. Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485(b), except as provided in §60.482-1(c) and (f) and §60.482-2(d), (e), and (f). A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in §60.482-1(c) and (f) and §60.482-2(d), (e), and (f). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. [40 CFR 60.482-2(a)(1) and (b)(1)] Federally Enforceable Through Title V Permit

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81. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, except as provided in §60.482-1(f). If there are indications of liquids dripping from the pump seal, the owner or operator shall follow the procedure specified in either paragraph §60.482-2(b)(2)(i) or (ii). This requirement does not apply to a pump that was monitored after a previous weekly inspection if the instrument reading for that monitoring event was less than 10,000 ppm and the pump was not repaired since that monitoring event. [CFR 60.482-2(a)(2) and (b)(2)] Federally Enforceable Through Title V Permit

82. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the practices described in paragraphs §60.482-2(c)(2)(i) and (ii) of this section, where practicable. [40 CFR 60.482-2(c)] Federally Enforceable Through Title V Permit

83. Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (a) of this section, provided the requirements specified in paragraphs §60.482-2(d)(1) through (6). [40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit

84. Any pump that is designated, as described in §60.486(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs §60.482-2(a), (c), and (d) of this section if the pump has no externally actuated shaft penetrating the pump housing, is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in §60.485(c), and is tested for compliance with paragraph (e)(2) of this section initially upon designation, annually, and at other times requested by the District. [40 CFR 60.482-2(e)] Federally Enforceable Through Title V Permit

85. If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of §60.482-10, it is exempt from paragraphs §60.482-2(a) through (e). [40 CFR 60.482-2(f)] Federally Enforceable Through Title V Permit

86. Any pump that is designated, as described in §60.486(f)(1), as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of paragraphs §60.482-2(a) and (d)(4) through (6) if the owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph §60.482-2(a); and the owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in paragraph §60.482-2(c) if a leak is detected. [40 CFR 60.482-2(g)] Federally Enforceable Through Title V Permit

87. Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs §60.482-2(a)(2) and (d)(4), and the daily requirements of paragraph §60.482-2(d)(5), provided that each pump is visually inspected as often as practicable and at least monthly. [CFR 60.482-2(h)] Federally Enforceable Through Title V Permit

88. Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs §60.482-3(h), (i), and (j). [40 CFR 60.482-3(a)] Federally Enforceable Through Title V Permit

89. Each compressor seal system as required in paragraph §60.482-3(a) shall be operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of §60.482-10; or equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. [40 CFR 60.482-3(b)] Federally Enforceable Through Title V Permit

90. The barrier fluid system shall be in heavy liquid service or shall not be in VOC service. [40 CFR 60.482-3(c)] Federally Enforceable Through Title V Permit

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91. Each barrier fluid system as described in paragraph §60.482-3(a) shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both. Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined, a leak is detected. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [40 CFR 60.482-3(d), (e), (f), and (g)] Federally Enforceable Through Title V Permit

92. A compressor is exempt from the requirements of paragraphs §60.482-3(a) and (b), if it is equipped with a closed vent system to capture and transport leakage from the compressor drive shaft back to a process or fuel gas system or to a control device that complies with the requirements of §60.482-10, except as provided in paragraph §60.482-3(i). [40 CFR 60.482-3(h)] Federally Enforceable Through Title V Permit

93. Any compressor that is designated, as described in §60.486(e) (1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs §60.482-3(a)-(h) if the compressor is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in §60.485(c); and is tested for compliance initially upon designation, annually, and at other times requested by the District. [40 CFR 60.482-3(i)] Federally Enforceable Through Title V Permit

94. Any existing reciprocating compressor in a process unit which becomes an affected facility under provisions of §60.14 or §60.15 is exempt from paragraphs §60.482-3(a) through (e) and (h), provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of paragraphs §60.482-3 (a) through (e) and (h). [40 CFR 60.482-3(j)] Federally Enforceable Through Title V Permit

95. Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485(c). [40 CFR 60.482-4(a)] Federally Enforceable Through Title V Permit

96. After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in §60.482-9. No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in §60.485(c). [40 CFR 60.482-4(b)] Federally Enforceable Through Title V Permit

97. Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in §60.482-10 is exempted from the requirements of paragraphs§60.482-4(a) and (b). [40 CFR 60.482-4(c)] Federally Enforceable Through Title V Permit

98. Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the requirements of paragraphs §60.482-4(a) and (b), provided the owner or operator, after each pressure release, installs a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in §60.482-9. [40 CFR 60.482-4(d)] Federally Enforceable Through Title V Permit

99. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and §60.482-5(c). [40 CFR 60.482-5(a)] Federally Enforceable Through Title V Permit

100. Each closed-purge, closed-loop, or closed-vent system as required in §60.482-5(a) shall comply with the requirements specified in §60.482-5(b)(1) through (4). [40 CFR 60.482-5(b)] Federally Enforceable Through Title V Permit

101. In situ sampling systems and sampling systems without purges are exempt from the requirements of paragraphs §60.482-5(a) and (b). [40 CFR 60.482-5(c)] Federally Enforceable Through Title V Permit

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102. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1(c) and §60.482-6(d) and (e). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. [40 CFR 60.482-6(a)] Federally Enforceable Through Title V Permit

103. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6(b)] Federally Enforceable Through Title V Permit

104. When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with §60.482-6(a) at all other times. [40 CFR 60.482-6(c)] Federally Enforceable Through Title V Permit

105. Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of §60.482-6(a), (b) and (c). [40 CFR 60.482-6(d)] Federally Enforceable Through Title V Permit

106. Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in §60.482-6(a) through (c) are exempt from the requirements of §60.482-6(a) through (c) of this section. [40 CFR 60.482-6(e)] Federally Enforceable Through Title V Permit

107. Each valve in gas/vapor service and in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485(b) and shall comply with §60.482-7(b) through (e), except as provided in §60.482-7(f), (g), and (h), §60.482-1(c) and (f), and §60.483-1 and §60.483-2. A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for the process unit must be monitored according to §60.482-7(a)(2)(i) or (ii), except for a valve that replaces a leaking valve and except as provided in §60.482-7(f), (g), and (h), §60.482-1(c), §60.483-1, and §60.483-2. [40 CFR 60.482-7(a)] Federally Enforceable Through Title V Permit

108. If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors, the owner or operator shall follow either one of the following procedures: (1) The owner or operator shall monitor the equipment within 5 days by the method specified in §60.485(b) and shall comply with the requirements of §60.482-8(b) through (d). (2) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection. [40 CFR 60.482-8(a)] Federally Enforceable Through Title V Permit

109. Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit. [40 CFR 60.482-9(a)] Federally Enforceable Through Title V Permit

110. Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service. [40 CFR 60.482-9(b)] Federally Enforceable Through Title V Permit

111. Delay of repair for valves will be allowed if the owner or operator demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with §60.482-10. [40 CFR 60.482-9(c)] Federally Enforceable Through Title V Permit

112. Delay of repair for pumps will be allowed if repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and repair is completed as soon as practicable, but not later than 6 months after the leak was detected. [40 CFR 60.482-9(d)] Federally Enforceable Through Title V Permit

113. Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown. [40 CFR 60.482-9(e)] Federally Enforceable Through Title V Permit

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114. When delay of repair is allowed for a leaking pump or valve that remains in service, the pump or valve may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition. [40 CFR 60.482-9(f)] Federally Enforceable Through Title V Permit

115. Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent. [40 CFR 60.482-10(b)] Federally Enforceable Through Title V Permit

116. Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C. [40 CFR 60.482-10(c)] Federally Enforceable Through Title V Permit

117. Flares used to comply with this subpart shall comply with the requirements of §60.18. [40 CFR 60.482-10(d)] Federally Enforceable Through Title V Permit

118. Owners or operators of control devices shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. [40 CFR 60.482-10(e)] Federally Enforceable Through Title V Permit

119. Except as provided in §60.482-10(i) through (k), each closed vent system shall be inspected according to the procedures and schedule specified in §60.482-10(f)(1) and (f)(2). [40 CFR 60.482-10(f)] Federally Enforceable Through Title V Permit

120. Leaks in closed vent systems and control devices, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practicable except as provided in §60.482-10(h). A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 15 calendar days after the leak is detected. [40 CFR 60.482-10(g)] Federally Enforceable Through Title V Permit

121. Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown. [40 CFR 60.482-10(h)] Federally Enforceable Through Title V Permit

122. If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2). [40 CFR 60.482-10(i)] Federally Enforceable Through Title V Permit

123. Any parts of the closed vent system that are designated, as described in §60.482-10(l)(1) of this section, as unsafe to inspect are exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2) if they comply with the following requirements: (1) The owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with §60.482-10(f)(1)(i) or (f)(2); and (2) The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. [40 CFR 60.482-10(j)] Federally Enforceable Through Title V Permit

124. Any parts of the closed vent system that are designated, as described in §60.482-10(l)(2), as difficult to inspect are exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2) if they comply with the following requirements: (1) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and (2) The process unit within which the closed vent system is located becomes an affected facility through §60.14 or §60.15, or the owner or operator designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and (3) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum. [40 CFR 60.482-10(k)] Federally Enforceable Through Title V Permit

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125. The owner or operator shall record the following information: (1) Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment. (2) Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment. (3) For each inspection during which a leak is detected, a record of the information specified in §60.486(c). (4) For each inspection conducted in accordance with §60.485(b) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. (5) For each visual inspection conducted in accordance with §60.482-10(f)(1)(ii) of this section during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 60.482-10(l)]

126. Closed vent systems and control devices used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them. [40 CFR 60.482-10(m)] Federally Enforceable Through Title V Permit

127. The owner or operator shall determine compliance with the standards in §60.482-1 through §60.482-10, §60.483, and §60.484 as follows: EPA Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in EPA Method 21. The following calibration gases shall be used: zero air (less than 10 ppm of hydrocarbon in air); and a mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [40 CFR 60.485(b)] Federally Enforceable Through Title V Permit

128. The owner or operator shall determine compliance with the no detectable emission standards in §60.482-2(e), §60.482-3(i), §60.482-4, §60.482-7(f), and §60.482-10(e) as follows: (1) The requirements of §60.485(b) shall apply and (2) EPA Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance. [40 CFR 60.485(c)] Federally Enforceable Through Title V Permit

129. The owner or operator shall test each piece of equipment unless he demonstrates that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used: (1) Procedures that conform to the general methods in ASTM E260-73, 91, or 96, E168-67, 77, or 92, E169-63, 77, or 93 (incorporated by reference-see §60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment, (2) Organic compounds that are considered by the District to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid, (3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the District disagrees with the judgment, §60.485(d) (1) and (2) shall be used to resolve the disagreement. [40 CFR 60.485(d)] Federally Enforceable Through Title V Permit

130. The owner or operator shall demonstrate that a piece of equipment is in light liquid service by showing that all the following conditions apply: (1) The vapor pressure of one or more of the organic components is greater than 0.3 kPa at 20 °C (1.2 in. H2O at 68 °F). Standard reference texts or ASTM D2879-83, 96, or 97 (incorporated by reference-see §60.17) shall be used to determine the vapor pressures, (2) The total concentration of the pure organic components having a vapor pressure greater than 0.3 kPa at 20 °C (1.2 in. H2O at 68 °F) is equal to or greater than 20 percent by weight, (3) The fluid is a liquid at operating conditions. [40 CFR 60.485(e)] Federally Enforceable Through Title V Permit

131. Samples used in conjunction with §60.485(d), (e), and (g) shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare. [40 CFR 60.485(f)] Federally Enforceable Through Title V Permit

132. The owner or operator shall determine compliance with the standards of flares as stated in §60.485(g). [40 CFR 60.485(g)] Federally Enforceable Through Title V Permit

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133. The owner or operator shall determine compliance with §60.483-1 or §60.483-2 as follows: (1) The percent of valves leaking shall be determined using the following equation: %VL= (VL/VT) * 100, Where: %VL= Percent leaking valves, VL= Number of valves found leaking, VT= The sum of the total number of valves monitored, (2) The total number of valves monitored shall include difficult-to-monitor and unsafe-to-monitor valves only during the monitoring period in which those valves are monitored, (3) The number of valves leaking shall include valves for which repair has been delayed, (4) Any new valve that is not monitored within 30 days of being placed in service shall be included in the number of valves leaking and the total number of valves monitored for the monitoring period in which the valve is placed in service, (5) If the process unit has been subdivided in accordance with §60.482-7(c)(1)(ii), the sum of valves found leaking during a monitoring period includes all subgroups, (6) The total number of valves monitored does not include a valve monitored to verify repair. [40 CFR 60.485(h)] Federally Enforceable Through Title V Permit

134. An owner or operator of more than one affected facility subject to the provisions of this subpart may comply with the recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(2)] Federally Enforceable Through Title V Permit

135. When each leak is detected as specified in §60.482-2, §60.482-3, §60.482-7, §60.482-8, and §60.483-2 the following requirements apply: (1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment; (2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in §60.482-7(c) and no leak has been detected during those 2 months; (3) The identification on equipment except on a valve, may be removed after it has been repaired. [40 CFR 60.486(b)] Federally Enforceable Through Title V Permit

136. When each leak is detected the following information shall be recorded in a log and kept in a readily accessible location: (1) The instrument and operator identification numbers and the equipment identification number; (2) The date the leak was detected and the dates of each attempt to repair the leak; (3) Repair methods applied in each attempt to repair the leak; (4) "Above 10,000" if the maximum instrument reading measured by the methods specified in §60.485(a) after each repair attempt is equal to or greater than 10,000 ppm; (5) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak; (6) The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown; (7) The expected date of successful repair of the leak if a leak is not repaired within 15 days; (8) Dates of process unit shutdowns that occur while the equipment is unrepaired; (9) The date of successful repair of the leak. [40 CFR 60.486(c)] Federally Enforceable Through Title V Permit

137. The following information pertaining to the design requirements for closed vent systems and control devices described in §60.482-10 shall be recorded and kept in a readily accessible location: (1) Detailed schematics, design specifications, and piping and instrumentation diagrams; (2) The dates and descriptions of any changes in the design specifications; (3) A description of the parameter or parameters monitored, as required in §60.482-10(e), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring; (4) Periods when the closed vent systems and control devices required in §60.482-2, §60.482-3, §60.482-4, and §60.482-5 are not operated as designed, including periods when a flare pilot light does not have a flame; and (5) Dates of startups and shutdowns of the closed vent systems and control devices required in §60.482-2, §60.482-3, §60.482-4, and §60.482-5. [40 CFR 60.486(d)] Federally Enforceable Through Title V Permit

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138. The following information pertaining to all equipment subject to the requirements in §60.482-1 to §60.482-10 shall be recorded in a log that is kept in a readily accessible location: (1) A list of identification numbers for equipment subject to the requirements of this subpart; (2) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of §60.482-2(e), §60.482-3(i) and §60.482-7(f) and the designation of equipment as subject to the requirements of §60.482-2(e), §60.482-3(i), or §60.482-7(f) shall be signed by the owner or operator. Alternatively, the owner or operator may establish a mechanism with their permitting authority that satisfies this requirement; (3) A list of equipment identification numbers for pressure relief devices required to comply with §60.482-4; (4) The dates of each compliance test as required in §60.482-2(e), §60.482-3(i), §60.482-4, and §60.482-7(f), the background level measured during each compliance test, and the maximum instrument reading measured at the equipment during each compliance test; (5) A list of identification numbers for equipment in vacuum service; (6) A list of identification numbers for equipment that the owner or operator designates as operating in VOC service less than 300 hr/yr in accordance with §60.482-1(e), a description of the conditions under which the equipment is in VOC service, and rationale supporting the designation that it is in VOC service less than 300 hr/yr. [40 CFR 60.486(e)] Federally Enforceable Through Title V Permit

139. The following information pertaining to all valves subject to the requirements of §60.482-7(g) and (h) and to all pumps subject to the requirements of §60.482-2(g) shall be recorded in a log that is kept in a readily accessible location: (1) A list of identification numbers for valves and pumps that are designated as unsafe-to-monitor, an explanation for each valve or pump stating why the valve or pump is unsafe-to-monitor, and the plan for monitoring each valve or pump; (2) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve. [40 CFR 60.486(f)] Federally Enforceable Through Title V Permit

140. The following information shall be recorded for valves complying with §60.483-2: (1) A schedule of monitoring. (2) The percent of valves found leaking during each monitoring period. [40 CFR 60.486(g)] Federally Enforceable Through Title V Permit

141. The following information shall be recorded in a log that is kept in a readily accessible location: (1) Design criterion required in §60.482-2(d)(5) and §60.482-3(e)(2) and explanation of the design criterion; and (2) Any changes to this criterion and the reasons for the changes. [40 CFR 60.486(h)] Federally Enforceable Through Title V Permit

142. Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location. [40 CFR 60.486(j)] Federally Enforceable Through Title V Permit

143. All semiannual reports to the District shall include the following information: (1) Process unit identification. (2) For each month during the semiannual reporting period, number of valves for which leaks were detected as described in §60.482-7(b) or §60.483-2, number of valves for which leaks were not repaired as required in §60.482-7(d)(1), number of pumps for which leaks were detected as described in §60.482-2(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii), number of pumps for which leaks were not repaired as required in §60.482-2(c)(1) and (d)(6), number of compressors for which leaks were detected as described in §60.482-3(f), number of compressors for which leaks were not repaired as required in §60.482-3(g)(1), and the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible. (3) Dates of process unit shutdowns which occurred within the semiannual reporting period. (4) Revisions to items reported according to paragraph (b) if changes have occurred since the initial report or subsequent revisions to the initial report. [40 CFR 60.487(c)] Federally Enforceable Through Title V Permit

144. An owner or operator electing to comply with the provisions of §60.483-1 or §60.483-2 shall notify the District of the alternative standard selected 90 days before implementing either of the provisions. [40 CFR 60.487(d)] Federally Enforceable Through Title V Permit

145. An owner or operator shall report the results of all performance tests in accordance with §60.8 of the General Provisions. The provisions of §60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the District of the schedule for the initial performance tests at least 30 days before the initial performance tests. [40 CFR 60.487(e)] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

146. The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of paragraphs (a) through (c) of this section, provided that they comply with the requirements established by the State. [40 CFR 60.487(f)] Federally Enforceable Through Title V Permit

147. Each drain, receiving refinery wastewater from a process unit, shall be equipped with water seal controls. [40 CFR 60.692-2(a)(1)] Federally Enforceable Through Title V Permit

148. Each drain in active service, receiving refinery wastewater from a process unit, shall be checked by visual or physical inspection initially and monthly thereafter for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. [40 CFR 60.692-2(a)(2)] Federally Enforceable Through Title V Permit

149. Each drain out of active service shall be checked by visual or physical inspection initially and weekly thereafter for indications of low water levels or other problems that could result in VOC emissions. As an alternative, the owner or operator may elect to install a tightly sealed cap or plug over a drain that is out of service, inspection shall be conducted initially and semiannually to ensure caps or plugs are in place and properly installed. Whenever low water levels or missing or improperly installed caps or plugs are identified, water shall be added or first efforts at repair shall be made as soon as practicable, but not later than 24 hours after detection, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown [40 CFR 60.692-2(a) and 60.692-6] Federally Enforceable Through Title V Permit

150. Junction boxes in refinery wastewater systems shall be equipped with a cover and may have an open vent pipe. The vent pipe shall be at least 90 cm (3 ft) in length and shall not exceed 10.2 cm (4 in) in diameter. Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance. [40 CFR 60.692-2(b)(1)] Federally Enforceable Through Title V Permit

151. Junction boxes in refinery wastewater systems shall be visually inspected initially and semiannually thereafter to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge. If a broken seal or gap is identified, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown. [40 CFR 60.692-2(b)(3)(4) and 60.692-6] Federally Enforceable Through Title V Permit

152. Sewer lines, conveying refinery wastewater to wastewater treatment system, shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. [40 CFR 60.692-2(c)(1)] Federally Enforceable Through Title V Permit

153. The portion of each unburied sewer line shall be visually inspected initially and semiannually thereafter for indication of cracks, gaps, or other problems that could result in VOC emissions. Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown. [40 CFR 60.692-2(c)(2)(3) and 60.692-6] Federally Enforceable Through Title V Permit

154. Refinery wastewater routed through new process drains and a new first common downstream junction box, either as part of a new individual drain system or an existing individual drain system, shall not be routed through a downstream catch basin. [40 CFR 60.692-2(e)] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

155. Operators shall not depressurize any vessel containing VOCs unless the process unit turnaround is accomplished by employing one of the following operating procedures: The organic vapors shall either be recovered, added to the refinery fuel gas system and combusted; or controlled and piped to an appropriate firebox or incinerated for combustion; or flared, until the pressure within the process vessel is as close to atmospheric pressure as is possible. All process vessels shall be depressurized into the control facilities to less than 1020 mm Hg (5 psig) before venting/opening to atmosphere. All organic compounds which emerge from a refinery process vessel during the purging of said vessel and which otherwise would be emitted to the atmosphere shall be either directed to a flare or incinerator or shall be used for fuel until such disposition of emissions is not technically feasible or is less safe than atmospheric venting. [District Rule 4454, 4.0] Federally Enforceable Through Title V Permit

156. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit

157. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0] Federally Enforceable Through Title V Permit

158. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit

159. The owner or operator shall maintain records of fluids used in each process in the facility. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

160. The owner or operator shall maintain records of the source of the crude oil received by the facility. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

161. On December 31, 2012, the initial Title V permit was renewed. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days of the end of each reporting period. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-1-18

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT 61 MMBTU/HR CRUDE FRACTIONATION PLANT INCLUDING LIQUID RING STAGED VACUUM PUMP WITH SEPARATOR, FLAME ARRESTOR, EMERGENCY VENT STACK, GAS/LIQUID SEPARATOR, THREE VACUUM VESSELS, ONE ATMOSPHERIC VESSEL, AND FOUR HEATERS

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The fuel supply lines shall be physically disconnected from Heaters A, B, C, and D. [District Rule 4306] Federally Enforceable Through Title V Permit
3. Heaters A, B, C, and D shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4306 and all other applicable District regulations. [District Rule 4306] Federally Enforceable Through Title V Permit
4. Crude fractionation plant shall include Corona Cel liquid ring staged vacuum pump with separator, flame arrestor, emergency vent stack, gas/liquid separator, and three vacuum vessels and one atmospheric vessel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no detectable volatile organic compound (VOC) emissions from valves and flanges or from pressure relief valves during normal operation. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Forced draft heater A, box type heater B, and vertical cylindrical heaters C and D, shall not be fired during operation of gas turbine engine (S-73-2) except as provided below. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Gas turbine engine may operate concurrently with heaters listed in any single permit S-44-1, -2, -3, -4, or -6 provided the cumulative concurrent operation of gas turbine engine with any heaters listed in any of permit units S-44-1, -2, -3, -4, and -6 does not exceed 360 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall notify the District in writing within 24 hours upon firing of heaters A, B, C, or D. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Crude oil throughput for S-44-1 and S-44-4 combined shall not exceed 12,800 barrels per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Heater A shall operate as a replacement standby unit and shall not exceed a total heat input of 90 billion Btu/yr. [District Rule 4305] Federally Enforceable Through Title V Permit
11. Heater A shall be tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304. [District Rule 4305] Federally Enforceable Through Title V Permit
12. Refinery produced fuel gas shall be treated in H2S scrubber listed in S-44-13. [District NSR Rule] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Gas-fired emission rates from heaters shall not exceed any of the following: NOx - 0.036 lb/MMBtu, CO - 0.0840, VOC - 0.0055, PM10 - 0.0076, or SOx - 0.0143 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Oil-fired emission rates from heaters shall not exceed any of the following: NOx - 0.052 lb/MMBtu, CO - 0.0365, VOC - 0.0015, PM10 - 0.0241, or SOx - 0.0518 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The stack concentration of NOx (as NO2), CO, and O2, from heaters A, B, C, and D, shall be measured at least on a monthly basis, when operating, using District approved portable analyzers. [District Rule 4305] Federally Enforceable Through Title V Permit
18. Sampling facilities for source testing shall be provided for heaters A, B, C, and D in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing to measure NOx and CO emissions shall be conducted for heaters A, B, C, and D not less than once every 12 months, except as provided below. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
20. Source testing to measure NOx and CO emissions shall be conducted for heaters A, B, C, and D, not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
21. If permittee fails any compliance demonstration for NOx or CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
22. Source testing shall be performed to demonstrate compliance with NOx and CO emission limits within 60 days of introducing fuel for which the unit has not been source tested on in the previous 12 months. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
23. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NOx and CO source testing requirement. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
24. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

28. If the NOx or CO concentrations for heaters A, B, C or D, as measured by the portable analyzer, exceed the allowable emission rate, the permittee shall notify the District and take corrective action as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 4305] Federally Enforceable Through Title V Permit

29. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 2520, 9.4.2, and 4305] Federally Enforceable Through Title V Permit

30. Permittee shall maintain records of hours of concurrent operation of gas turbine engine S-73-2 with any heaters listed in permit units S-44-1, -2, -3, -4 & -6. [District NSR Rule] Federally Enforceable Through Title V Permit

31. Permittee shall maintain accurate records of fuel type, heating value of fuel, fuel consumption, daily crude oil throughput, annual operating hours & heat input per heater, annual emissions for the heaters, and dates of tuning. [District NSR Rule] Federally Enforceable Through Title V Permit

32. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

33. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

34. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

35. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 19,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

36. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

37. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

38. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

39. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

40. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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41. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

42. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

43. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

44. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 4305, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit

45. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

46. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

47. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

48. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx and CO emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 4305, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit

49. The following conditions must be met for representative unit(s) to be used to test for NOx and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

50. All units in a group for which representative units are source for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

51. All units in a group for which representative units are source tested to for NOx and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

52. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-2-25

EXPIRATION DATE: 08/31/2016

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SECTION: 06 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
SOLVENT EXTRACTION PLANT INCLUDING AIR STRIPPER, TWO ROTATING DISC COLUMNS, AND 40 MMBTU/HR SOLVENT PLANT VERTICAL CYLINDRICAL TYPE HOT OIL HEATER WITH A ZEECO MODEL GLSF-16 LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Solvent plant vertical cylindrical-type heater fuel gas use (not including pilot gas and waste gas) shall not exceed 36,800 scf/hr on a daily average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The heater unit shall be fired exclusively on PUC-quality natural gas and waste gas/refinery produced fuel gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. Except as provided below, heater shall not be fired during operation of gas turbine engine (S-73-2), other than natural gas-fired heater pilots (three pilots each rated at 65 scf/hr). [District Rule 2201] Federally Enforceable Through Title V Permit
5. Maximum heat input of waste gas/refinery produced fuel gas waste gas to solvent plant heater, calculated as product of flow rate (scf/day) and higher heating value (MMBtu/scf), shall not exceed 72 MMBtu/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Waste gas/refinery produced fuel gas may be combusted in the solvent plant heater by the pilot gas flame at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Waste gas/refinery produced fuel gas may be combusted by the main burner flame when cogeneration gas turbine engine (S-73-2) is not operating or during simultaneous operation of the solvent plant heater and S-73-2 (not to exceed 360 hr/yr as stated below). [District Rule 2201] Federally Enforceable Through Title V Permit
8. Gas turbine engine (S-73-2) may operate concurrently with heaters listed in any single permit S-44-1, -2, -3, -4, or -6 provided the cumulative concurrent operation of gas turbine engine with any heaters listed in any of permit units S-44-1, -2, -3, -4, and -6 does not exceed 360 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Waste gas/refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Refinery produced gas shall be treated in H2S scrubber listed in S-44-13. [District Rule 2201] Federally Enforceable Through Title V Permit
11. H2S content of gas burned shall not exceed 0.1 gr/dscf (161 ppmv) based on a three hour rolling average. [40 CFR 60.104(a)(1)] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Solvent plant heater emission rates shall not exceed any of the following: NOx - 30 ppmv @ 3% O2 or 0.036 lb/MMBtu, CO - 400 ppmv @ 3% O2, VOC - 5.5 lb/MMscf of fuel gas, PM10 - 7.6 lb/MMscf of fuel gas, or SOx - 5 gr of total sulfur per 100 standard cubic feet of fuel gas. [District Rules 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
13. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
16. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
17. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
22. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
23. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
25. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
26. Permittee shall maintain accurate records of fuel type and heating value, daily and annual fuel consumption, and annual emissions from heaters. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall maintain records of hours of concurrent operation of gas turbine engine S-73-2 with any heaters listed in permit units S-44-1, -2, -3, -4 & -6. [District Rule 2201] Federally Enforceable Through Title V Permit
28. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
29. Permittee shall maintain records of the occurrence of and duration of any startup, shutdown, or malfunction in the operation of the solvent plant heater, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(Last Amended December 19,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
32. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
33. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
34. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 4305, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit
36. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit
37. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. The owner or operator shall install an instrument for continuously monitoring and recording the concentration (dry basis) of H2S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H2S. The performance evaluations for this H2S monitor shall use Performance Specification 7. Method 11 shall be used for conducting the relative accuracy evaluations. [40 CFR Part 60, Subpart J, 60.105(a)(4)(i)(iii)] Federally Enforceable Through Title V Permit

39. Continuous emissions monitoring (CEM) results shall be calculated on a rolling three (3) hour average. [40 CFR 60.105(e)] Federally Enforceable Through Title V Permit

40. The owner or operator shall report all rolling 3-hour periods during which the average concentration of H2S as measured by the H2S continuous monitoring system exceeds 0.10 gr/dscf (230 mg/dscm or 161 ppmv). [40 CFR 60.105(e)(3)(ii)] Federally Enforceable Through Title V Permit

41. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

42. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

43. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

44. The permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-3-20

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT LUBE OIL FINISHING PLANT INCLUDING 6 MMBTU/HR CHARGE VERTICAL CYLINDRICAL HEATER, TWO HYDROGEN REACTORS, TWO COMPRESSORS, SEPARATORS, FLASH POT, AMINE TREATER WITH RECEIVER AND REGENERATOR, H2S PRODUCT STRIPPER (3-D-51), STRIPPER ACCUMULATOR, UTILITY FRACTIONATOR COLUMN (D-11) (SHARED WITH S-44-4), AND H2S SCRUBBER AND FLARE SERVING HYDROGEN RICH WASTE GAS STREAM

PERMIT UNIT REQUIREMENTS

1. The fuel supply line shall be physically disconnected from the 5 MMBtu/hr vertical cylindrical heater [District Rule 4307]
2. The 5 MMBtu/hr vertical cylindrical heater shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4307 and all other applicable District regulations. [District Rule 4307]
3. In the natural gas line to the charge heater, the permittee shall permanently install a calibrated orifice plate having a diameter not exceeding 0.3501 inches. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The diameter of natural gas fuel line orifice shall be permanently stamped on the orifice plate and shall be readily accessible and viewable by District inspection staff. A copy of the orifice sizing calculations shall be made available to District inspection staff upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The charge heater shall be fired solely on PUC regulated natural gas or fuel oil. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Simultaneous firing of natural gas and fuel oil in the charge heater is prohibited. [District NSR Rule] Federally Enforceable Through Title V Permit
7. In the fuel oil line to the charge heater, the permittee shall permanently install a calibrated orifice plate having a diameter not exceeding 0.0581 inches. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The diameter of the fuel oil line orifice shall be permanently stamped on the orifice plate and shall be readily accessible and viewable by District inspection staff. A copy of the orifice sizing calculations shall be made available to District inspection staff upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
9. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
10. H2S product stripper column includes vapor piping to H2S scrubber and flare serving hydrogen rich waste gas stream and to refinery waste gas system listed in S-44-13, and liquid piping to tank S-44-157. [District NSR Rule] Federally Enforceable Through Title V Permit
11. There shall be no detectable volatile organic compound (VOC) emissions from valves and flanges or from pressure relief valves during normal operation. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Hydrogen reactors may be used in parallel configuration (one at a time) or in series configuration (concurrently). [District NSR Rule] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Hydrogen rich waste gas stream shall be equipped with continuously recording flowrate meter. [District NSR Rule] Federally Enforceable Through Title V Permit
14. H2S scrubber serving hydrogen rich waste gas shall be equipped with continuous operation H2S monitor on outlet of H2S scrubber. [District Rule 4801] Federally Enforceable Through Title V Permit
15. Excess sour gas from flash pot, stripper accumulator and amine regenerator shall discharge only to hydrogen rich waste gas stream H2S scrubber. [District NSR Rule] Federally Enforceable Through Title V Permit
16. VOC emissions from fugitive components associated with H2S product stripper column shall not exceed 1.0 lb/day. VOC emissions from fugitive components installed after April 2000 on utility fractionator column shall not exceed 1.7 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Fugitive emission calculations shall be performed using API Publication 4322 for emission factors and control efficiencies for inspection and maintenance program established in EPA Publication 450/3-83-007. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Hydrogen rich waste gas flowrate to H2S scrubber and flare shall not exceed 50,400 dscf/day. Flowrate (dscf/day) may be calculated using wet gas mass flowrate measurement corrected for water content. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Refinery produced fuel gas, except hydrogen rich waste gas stream, shall be treated in H2S scrubber listed in S-44-13 and burned in boiler S-44-13 or solvent plant heater S-44-2. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The charge heater shall not be fired during operation of gas turbine engine (S-73-2) except as provided below. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Gas turbine engine may operate concurrently with heaters listed in any single permit S-44-1, -2, -3, -4, or -6 provided the cumulative concurrent operation of gas turbine engine with any heaters listed in any of permit units S-44-1, -2, -3, -4, and -6 does not exceed 360 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Permittee shall notify the District in writing within 24 hours upon firing the charge heater. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Charge heater gas-fired emission rates shall not exceed any of the following limits: 0.1000 lb-NOx/MMBtu, 0.0840 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 lb-PM10/MMBtu, or 0.0143 lb-SOx /MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Charge heater oil-fired emission rates shall not exceed any of the following limits: 0.1460 lb-NOx/MMBtu, 0.0365 lb-CO/MMBtu, 0.0015 lb-VOC/MMBtu, 0.0241 lb-PM10/MMBtu, or 0.0518 lb-SOx/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
26. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas and fuel oil combusted in the unit shall be installed, utilized and maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Permittee shall maintain records of hours of concurrent operation of gas turbine engine S-73-2 with any heaters listed in permit units S-44-1, -2, -3, -4 & -6. [District NSR Rule] Federally Enforceable Through Title V Permit
28. Permittee shall maintain accurate records of hydrogen rich waste gas (off gas) produced (dscf/day), charge heater fuel type, daily and annual charge heater fuel consumption, and annual emissions from charge heater. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Permittee shall maintain annual records of fugitive component count and corresponding emission calculations for components installed in conjunction with the H2S product stripper column and components installed after April 2000 for the utility fractionator. [District NSR Rule] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

30. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

31. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

32. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

33. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-4-20

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT 4.5 MMBTU/HR LUBE OIL FINISHING PLANT - UTILITY FRACTIONATOR INCLUDING THREE ATMOSPHERIC COLUMN NOS. D-11, D-21, & D-31, STANDBY HEATER NOS. 11, 21, & 31, AND HEAT OIL EXCHANGER NOS. E 551, E-552, & E-553

PERMIT UNIT REQUIREMENTS

1. No modification to Heaters #11 and #31 shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from Heaters #11 and #31 while dormant. [District Rules 2201, 4306, 4307] Federally Enforceable Through Title V Permit
3. Heaters #11 and #31 shall not be operated for any reason until Authority to Construct permits are issued approving all necessary retrofits required to comply with the applicable requirements of either Rule 4306 or 4307 and all other applicable District regulations. [District Rules 4306, 4307] Federally Enforceable Through Title V Permit
4. Heaters #11, #21, and #31shall not be fired during operation of gas turbine engine (S-73-2) except as provided below. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Gas turbine engine may operate concurrently with heaters listed in any single permit S-44-1, -2, -3, -4, or -6 provided the cumulative concurrent operation of gas turbine engine with any heaters listed in any of permit units S-44-1, -2, -3, -4, and -6 does not exceed 360 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Permittee shall notify the District in writing within 24 hours upon firing of heaters. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Refinery produced fuel gas shall be treated in H2S scrubber listed in S-44-13. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant Heater S-44-2. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Heaters #11 and #31 shall not be fired at greater than 4.5 MMBTU/hr combined for the two heaters. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Crude oil throughput for S-44-1 and S-44-4 combined shall not exceed 12,800 barrels per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Standby Heaters #11 and #31 and Heater # 21 shall be fired solely on PUC regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Emissions from either of the standby Heaters (#11 and 31) shall not exceed any of the following limits: 0.10 lb-NOx/MMBtu, 0.084 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 PM10/MMBtu, or 0.00285 lb-SOx/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Emissions from Heater #21 shall not exceed any of the following limits: 6 ppmv NOx @ 3% O2 or 0.007 lb-NOx/MMBtu, 50 ppmv CO @ 3% O2 or 0.037 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 PM10/MMBtu, or 0.00285 lb-SOx/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Upon resuming operation of Heaters #11 and #31, the stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rule 4305] Federally Enforceable Through Title V Permit
16. Sampling facilities for source testing shall be provided in accordance with the provisions of District Rule 1081 (amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing to measure NOx and CO emissions from Heater #21, while fired on natural gas, shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
24. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
26. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
27. Upon resuming operation of Heaters #11 and #31, source testing to measure NOx and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

28. Upon resuming operation of Heaters #11 and #31, source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

29. Upon resuming operation of Heaters #11 and #31, if permittee fails any compliance demonstration for NOx or CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

30. Upon resuming operation of Heaters #11 and #31, source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NOx and CO source testing requirement. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

31. Upon resuming operation of Heaters #11 and #31, compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit

32. Upon resuming operation of Heaters #11 and #31, source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

33. Upon resuming operation of Heaters #11 and #31, the results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

34. Upon resuming operation of Heaters #11 and #31, the following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351] Federally Enforceable Through Title V Permit

35. Upon resuming operation of Heaters #11 and #31, if the NOx or CO concentrations, as measured by the portable analyzer, exceed the allowable emission rate, the permittee shall notify the District and take corrective action as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 2520, 9.3.2 and 4305] Federally Enforceable Through Title V Permit

36. The permittee shall monitor and record the Heater #21 stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the same calendar month. [District Rules 4305, 4306 and 4320]

37. If either the Heater #21 NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. All Heater #21 alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320]

39. {4318} The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320]

40. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 2201, 2520, 9.4.2, 4305, and 4320] Federally Enforceable Through Title V Permit

41. Permittee shall maintain accurate records of fuel type, annual fuel consumption, annual emissions from the Heaters, and daily crude oil throughput. [District Rule 2201] Federally Enforceable Through Title V Permit

42. Permittee shall maintain records of hours of concurrent operation of gas turbine engine S-73-2 with any Heaters listed in permit units S-44-1, -2, -3, -4 & -6. [District Rule 2201] Federally Enforceable Through Title V Permit

43. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 2201, 2520, 9.4.2, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

44. Upon resuming operation of Heaters #11 and #31, the portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

45. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

46. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type of fuel combusted. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

47. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

48. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by maintaining copies of fuel invoices, gas purchase contracts, or supplier certifications. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

49. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). Compliance with this requirement may be demonstrated by maintaining copies of fuel invoices, gas purchase contracts, or supplier certifications. [District Rule 4801] Federally Enforceable Through Title V Permit

50. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

51. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

52. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

53. Upon resuming operation of Heaters #11 and #31, annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx and CO emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 4305, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit

54. Upon resuming operation of Heaters #11 and #31, the following conditions must be met for representative unit(s) to be used to test for NOx and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

55. Upon resuming operation of Heaters #11 and #31, all units in a group for which representative units are source for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

56. Upon resuming operation of Heaters #11 and #31, all units in a group for which representative units are source tested to for NOx and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

57. Upon resuming operation of Heaters #11 and #31, the number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-5-13

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 27E

EQUIPMENT DESCRIPTION:
99.9 MMBTU/HR NATURAL GAS-FIRED ZURN MODEL 15M KEYSTONE BOILER WITH COEN STAGED AIR BURNER AND FLUE GAS RECIRCULATION

PERMIT UNIT REQUIREMENTS

1. Burner shall be fired exclusively on PUC-regulated natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Gas-firing rate shall not exceed 94,612 scf per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Boiler shall not be fired during operation of cogeneration facility (S-73-2). [District NSR Rule] Federally Enforceable Through Title V Permit
4. Emission rates shall not exceed any of the following: NOx (as NO2): 25 ppmv @3% O2 or 0.031 lb/MMBtu, CO: 400 ppmv @ 3% O2 or 0.30 lb/MMBtu. [District Rules 4305, 5.1.1, 4306, 5.1.1 and 4351] Federally Enforceable Through Title V Permit
5. Emissions shall not exceed any of the following: 0.0056 lb-VOC/MMBtu, 0.0076 lb-PM10/MMBtu, or 0.0006 lb-SOx/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
8. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
9. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
10. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
11. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

12. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
13. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
18. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
19. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
20. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. Permittee shall maintain accurate records of fuel type, daily fuel consumption, annual fuel consumption and annual emissions from the boiler, and shall make such records available for District inspection for five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

26. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

27. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

28. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

29. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

30. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 4305 and 4306, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit

32. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

33. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rules 4305 and 4306, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

34. Nitrogen oxide (NOx) emissions shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

35. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

36. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx and CO emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305 and 4306, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit

37. The following conditions must be met for representative unit(s) to be used to test for NOx and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit

38. All units in a group for which representative units are source for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit

39. All units in a group for which representative units are source tested to for NOx and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit

40. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

41. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

42. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

43. The permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-6-13

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT 65 MMBTU/HR SHIPPING & RECEIVING OPERATION INCLUDING 45 MMBTU/HR ASPHALT SHIPPING FORCED DRAFT HEATER AND 20 MMBTU/HR CIRCULATING (RETORT) NATURAL DRAFT VERTICAL CYLINDRICAL HEATER

PERMIT UNIT REQUIREMENTS

1. No modification to the 45 MMBtu/hr asphalt shipping heater shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line of the 45 MMBtu/hr asphalt shipping heater shall be physically disconnected from this unit. [District Rule 4306] Federally Enforceable Through Title V Permit
3. This 45 MMBtu/hr asphalt shipping heater shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4306 and all other applicable District regulations. [District Rule 4306] Federally Enforceable Through Title V Permit
4. If continuous operation oxygen analyzer/controller is utilized, excess O2 shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Asphalt shipping heater (forced draft) shall be fired on oil or natural gas. Retort heater (natural draft) shall be fired on natural gas. Neither heater shall incinerate refinery produced gas. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Heaters shall not be fired during operation of gas turbine engine (S-73-2) except as provided below. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Gas turbine engine may operate concurrently with heaters listed in any single permit S-44-1, -2, -3, -4, or -6 provided the cumulative concurrent operation of gas turbine engine with any heaters listed in any of permit units S-44-1, -2, -3, -4, and -6 does not exceed 360 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall notify the District in writing within 24 hours upon firing of heaters. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Asphalt shipping heater and retort heater shall each be equipped with recording fuel flow meter. [District Rule 4305 and 4351] Federally Enforceable Through Title V Permit
10. Asphalt shipping heater shall operate as a replacement standby unit and shall not be fired for more than 90 billion Btu/year. [District Rule 4305] Federally Enforceable Through Title V Permit
11. Asphalt shipping heater shall only fire on oil during periods of involuntary natural gas curtailment. Heater shall not be fired on oil for more than 336 hours per year, except for 48 hours per year for maintenance and testing. [District Rule 4351] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

12. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Gas fired emission rate from 45 MMBtu/hr forced draft asphalt shipping heater shall not exceed: NOx, 95 ppmv @3% O2 or 0.10 lb/MMBtu, and CO, 400 ppmv @3% O2. [District Rule 4351] Federally Enforceable Through Title V Permit
14. Gas fired emission rate from 20 MMBtu/hr natural draft retort heater shall not exceed: NOx, 147 ppmv @3% O2 or 0.18 lb/MMBtu, and CO, 400 ppmv @3% O2. [District Rule 4305 and 4351] Federally Enforceable Through Title V Permit
15. The retort heater stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rule 4305] Federally Enforceable Through Title V Permit
16. Source testing of retort heater to measure NOx and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rule 4351] Federally Enforceable Through Title V Permit
17. Source testing of the retort heater to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rule 4351] Federally Enforceable Through Title V Permit
18. If permittee fails any compliance demonstration for NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits for the retort heater shall be demonstrated not less than once every 12 months. [District Rule 4351] Federally Enforceable Through Title V Permit
19. Source testing shall be performed to demonstrate compliance with NOx and CO emission limits within 60 days of introducing fuel for which the unit has not been source tested on in the previous 12 months. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
22. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351] Federally Enforceable Through Title V Permit
23. If the retort heater NOx or CO concentrations, as measured by the portable analyzer, exceed the allowable emission rate, the permittee shall notify the District and take corrective action as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 4305] Federally Enforceable Through Title V Permit
24. The permittee shall maintain records of the date and time of retort heater NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 2520, 9.4.2 and 4305] Federally Enforceable Through Title V Permit
25. Asphalt heater and heater A shall be either tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304, or operated with exhaust oxygen concentration no greater than 3.00% by volume on a dry basis. [District Rule 4305] Federally Enforceable Through Title V Permit
26. Asphalt heater shall be operated in accordance with the manufacturer's recommendations. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

27. Permittee shall maintain records of monthly and annual fuel consumption for each heater, and annual emissions from heaters. [District NSR Rule, 4305, and 4351] Federally Enforceable Through Title V Permit

28. Permittee shall maintain records of hours of concurrent operation of gas turbine engine S-73-2 with any heaters listed in permit units S-44-1, -2, -3, -4 & -6. [District NSR Rule] Federally Enforceable Through Title V Permit

29. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

30. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

32. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

33. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

34. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

35. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

36. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

37. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

38. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

39. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

40. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

41. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

42. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

43. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

44. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: S-44-7-5

EXPIRATION DATE: 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
VORTOIL, MODEL H50-GO-ICR, HORIZONTAL HYDRO-CYCLONE OIL/WATER SEPARATOR.

PERMIT UNIT REQUIREMENTS

1. Throughput rate of wastewater shall not exceed 10,000 Bbl per day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. VOC emissions from Vortoil Hydro-Cyclone Separator shall not exceed 84.0 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging and sampling device in the compartment cover shall be equipped with a cover or lid. The cover shall be in a closed position at all times, except when the device is in actual use. [District Rule 4625] Federally Enforceable Through Title V Permit
4. Oil/water separator shall be maintained in a manner preventing the emission of noxious odors. [District Rule 4102]
5. Wet oil recovered from tank #'s 3501 and 3502 (S-44-133 & '134) shall be routed either to tank #2009 (S-44-79) and/or #2059 (S-44-37) for drying. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Dried oil from tanks 2009 & 2059 shall either be blended into SC asphalt and/or light fuel oil, or dried oil shall be routed to tank #3003 (S-44-94) for mixing with float from dissolved air flotation unit and charged to vacuum plant. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Permittee shall maintain accurate daily records of wastewater throughput and make such records readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-8-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-9-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-10-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10003

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-11-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10004

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-12-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
2,284,128 GALLON FIXED ROOF PETROLEUM STORAGE TANK #54001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-13-23

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT (COMPLIANT) 100 MMBTU/HR CLEAVER BROOKS BOILER INCLUDING JOHN ZINK LOW NOX BURNER, H2S CAUSTIC SCRUBBER, CONTINUOUS H2S MONITOR, & BACKUP H2S REMOVAL SYSTEM WITH "SULFATREAT" ADSORBENT VERTICAL COLUMN FUEL GAS SCRUBBER WITH NOMINAL DIMENSIONS 18' LONG BY 4' DIAMETER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from this unit when dormant. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
5. Boiler natural gas use shall not exceed 465.6 mmscf/day during operation of cogeneration facility (S-73-2). [District NSR Rule] Federally Enforceable Through Title V Permit
6. H2S removal system includes two H2S scrubbers, waste gas knockout pot, fresh and spent caustic storage tanks, and various liquid pumps. [District NSR Rule] Federally Enforceable Through Title V Permit
7. H2S content of refinery fuel gas burned shall not exceed 0.1 gr/dscf (161 ppmv) based on a three hour rolling average. [40 CFR 60.104(a)(1)] Federally Enforceable Through Title V Permit
8. Refinery produced fuel gas burned shall be from crude fractionation plant S-44-1, solvent extraction plant S-44-2, lube oil hydrotreater S-44-3 (except hydrogen stream), and lube oil fractionator S-44-4. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Emission rates shall not exceed NOx (as NO2): 25 ppmvd @3% O2 or 0.03 lb/MMBtu, and CO: 400 ppmvd @ 3% O2. [District Rules 4301, 4305, 4306 and 4351] Federally Enforceable Through Title V Permit
11. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
15. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
16. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
17. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
21. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
22. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
24. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 4305, 6.2.1; 4306, 6.2.1, and 4351, 6.2.1] Federally Enforceable Through Title V Permit

26. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit

27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

28. Permittee shall maintain accurate records of fuel type, fuel consumption, boiler feedwater/produced steam rate, and annual emissions from the boiler, and shall make such records available for District inspection for five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit

29. Permittee shall maintain records of the occurrence of and duration of any startup, shutdown, or malfunction in the operation of the C.B. boiler, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

30. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

32. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

33. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

34. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

35. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

36. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

37. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

39. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

40. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

41. The owner or operator shall install an instrument for continuously monitoring and recording the concentration (dry basis) of H2S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H2S. The performance evaluations for this H2S monitor shall use Performance Specification 7. Method 11 shall be used for conducting the relative accuracy evaluations. [40 CFR Part 60, Subpart J, 60.105(a)(4)(i)(iii)] Federally Enforceable Through Title V Permit

42. Continuous emissions monitoring (CEM) results shall be calculated on a rolling three (3) hour average. [40 CFR 60.105(e)] Federally Enforceable Through Title V Permit

43. The owner or operator shall report all rolling 3-hour periods during which the average concentration of H2S as measured by the H2S continuous monitoring system exceeds 0.10 gr/dscf (230 mg/dscm or 161 ppmv). [40 CFR 60.105(e)(3)(ii)] Federally Enforceable Through Title V Permit

44. On and after the date of startup or modification of the gas turbine or the other fired equipment, Tricor Refining LLC. shall not discharge, or cause the discharge into the atmosphere, nitrogen oxides, calculated as nitrogen dioxide, in excess of 1 lb/hr or average of 0.10 lb/MMBtu except during periods of startup, shutdown, or malfunction of the turbine or HTF heater. [PSD SJ 83-07] Federally Enforceable Through Title V Permit

45. During normal turbine operation, the low-fire standby boiler shall only be operated at its minimum firing position (10 MMBtu/hr heat input). the boiler shall not be operated above this firing rate except firing periods of startup, shutdown, or malfunction of the turbine or HTF heater. [PSD SJ 83-07] Federally Enforceable Through Title V Permit

46. Operation of the standby facility shall be expressly prohibited except during periods of startup, shutdown, or malfunction of the turbine or HTF heater. [PSD SJ 83-07] Federally Enforceable Through Title V Permit

47. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

48. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: S-44-14-3

EXPIRATION DATE: 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
71 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 30 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Operation of the engine, for other than maintenance and testing purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter (PM-10) emission rate shall not exceed 0.16 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Sulfur compound emission rate shall not exceed 0.06 lb/hr as SO2. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Nitrogen oxide emission rate shall not exceed 1.87 lb/hr as NO2. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Volatile organic compound (VOC) emission rate shall not exceed 0.04 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Carbon monoxide (CO) emission rate shall not exceed 1.21 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be operated using only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight. [17 CCR 93115 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

16. Effective May 3, 2013, The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63.6603(a)] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-15-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
91 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 50 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Operation of the engine, for other than maintenance and testing purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter (PM-10) emission rate shall not exceed 0.20 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Sulfur compound emission rate shall not exceed 0.08 lb/hr as SO2. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Nitrogen oxide emission rate shall not exceed 1.98 lb/hr as NO2. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Carbon monoxide (CO) emission rate shall not exceed 0.99 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be operated using only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight. [17 CCR 93115 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

13. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

16. Effective May 3, 2013, The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63.6603(a)] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-16-5 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ASPHALT/POLYMER BLENDING OPERATION W/ 544 BBL MIX TANK #501 AND 880 BBL STORAGE TANK #1062 VENTING TO LEAN OIL ABSORBER COLUMN AND CARBON CANISTER, AND TRUCK LOADOUT

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PERMIT UNIT REQUIREMENTS

1. Total quantity of asphalt loaded out from this operation shall not exceed 294,000 gal/day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Liquid storage temperature shall not exceed 450 degrees F. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Tanks #501 and #1062 shall only vent to lean oil absorber column and carbon canister. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Carbon canister inlet and outlet VOC concentration (ppmv) shall be monitored weekly when in use with a portable hydrocarbon detector and/or gas chromatograph analysis of grab samples to determine breakthrough. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Vapor control system consisting of lean oil absorber column and carbon canister shall operate at least at 99.99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Tank and all appurtenances and all associated piping, valves and fittings shall be maintained gas-tight (as defined in Rule 4623) at all times, except for hatches, sampling valves and other such devices during periods of gauging, sampling, and inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Permittee shall maintain accurate daily records of throughput and temperature of stored liquids in each tank for a period of five years and shall make such records readily available for District inspection upon request. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records of weekly monitoring of carbon canister outlet for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 2520, 9.3.2, 9.4.2] Federally Enforceable Through Title V Permit
9. The portable hydrocarbon detector shall be calibrated prior to each use with a two-point calibration method (zero and span). Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-17-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-18-3

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-19-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #802

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-20-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF STORAGE TANK (TANK #804)

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-21-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #805

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-22-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #806

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-25-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-26-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-27-4

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-28-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-29-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
453,096 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10023

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-30-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-31-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-34-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,298 GALLON FIXED ROOF PETROLEUM STORAGE TANK #283

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-35-5

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
TRUCK AND RAILCAR LOADOUT OPERATION INCLUDING RACK NOS. 1A (6 SPOUTS), A (4 SPOUTS), B (4 SPOUTS), C (4 SPOUTS), D (4 SPOUTS), E (4 SPOUTS), & F (6 SPOUTS) AND PUMPS

PERMIT UNIT REQUIREMENTS

1. Loading rack B includes Monsanto asphalt vent package. [District NSR Rule] Federally Enforceable Through Title V Permit
2. When loading air blown asphalt, truck loading rack B vapor piping shall vent to Monsanto asphalt vent package. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. True vapor pressure of any organic liquid being loaded shall be less than 1.5 psia at actual loading temperature. [District Rule 4624, 4.0 and Kern County Rule 413] Federally Enforceable Through Title V Permit
5. The operator shall maintain accurate daily records of liquid throughput, loading rack number, loading temperature, and liquid TVP to verify continued exemption from District Rule 4624 (Amended December 17, 1992). [District Rule 4624, 6.1 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4624, 6.2.3 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-36-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: SE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
252,546 GALLON WASTEWATER STORAGE TANK #6001

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of stored liquid shall not exceed 0.0 psia at storage conditions. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Volatile organic compound (VOC) emission rate shall not exceed 0 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The operator shall keep accurate records of types and TVP of liquids stored. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-37-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
84,882 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2059

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-41-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 7 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-42-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 7 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-44-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
325 HP COOLING TOWER #1 INCLUDING THREE PUMPS AND ONE FAN

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit
2. Hexavalent chromium concentration levels in circulating water shall not exceed 0.15 mg/l. [District Rule 7012] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grain/dscf of gas at operating conditions. [District Rule 4201,3.1] Federally Enforceable Through Title V Permit
4. The operator shall make a record containing information including the Material Safety Data Sheets (MSDS) of all chemicals used or added to the cooling tower circulating water. The records shall be kept and maintained for a period of at least five years, and made available for district inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-45-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
450 HP COOLING TOWER #2 INCLUDING FOUR PUMPS AND TWO FANS

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit
2. Hexavalent chromium concentration levels in circulating water shall not exceed 0.15 mg/l. [District Rule 7012] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grain/dscf of gas at operating conditions. [District Rule 4201,3.1] Federally Enforceable Through Title V Permit
4. The operator shall make a record containing information including the Material Safety Data Sheets (MSDS) of all chemicals used or added to the cooling tower circulating water. The records shall be kept and maintained for a period of at least five years, and made available for district inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-46-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ONE 1,600 GALLON STORAGE TANK #24-1 GASOLINE STORAGE TANK (PHASE I AND PHASE II EXEMPT)

PERMIT UNIT REQUIREMENTS

1. Gasoline tank shall be equipped with permanently affixed fill tube terminating no more than 6 inches from bottom of tank. [District Rule 4621, 4.1.2] Federally Enforceable Through Title V Permit
2. The gasoline throughput of this tank shall not exceed 24,000 gallons/year and 10,000 gallons per any consecutive 30-day period. [District Rule 4622, 4.1] Federally Enforceable Through Title V Permit
3. A log of gasoline throughput shall be kept, maintained, and made available for District inspection upon request. This log shall include all necessary information to determine the the total gasoline throughput during any consecutive 30-day period and the annual gasoline throughput. [District Rule 4622, 6.1.1] Federally Enforceable Through Title V Permit
4. If the gasoline throughput exceeds either 10,000 gallons per any consecutive 30-day period or 24,000 gallons per calendar year, then the facility shall notify the District within 30 days. [District Rule 4622, 6.1.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-47-5

EXPIRATION DATE: 08/31/2016

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SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #281

PERMIT UNIT REQUIREMENTS

1. True Vapor Pressure (TVP) of any material introduced, placed or stored in this tank shall be less than 11.0 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The tank shall be in a leak-free condition at all times, except as allowed for in Rule 4623. The pressure-vacuum (PV) relief valve shall be set to within 10% of the maximum allowable working pressure of the tank. The PV relief valve shall be permanently labeled with the operating pressure settings. The PV relief valve shall be properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve's set pressure. Any tank gauging or sampling device shall be equipped with a leak-free cover that shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.2] Federally Enforceable Through Title V Permit
3. In lieu of testing each uncontrolled fixed roof tank, the permittee may conduct a TVP testing of the organic liquid stored in a representative tank provided the requirements of Sections 6.2.1.1.1 through 6.2.1.1.5 are met. [District Rule 4623, 6.2.1] Federally Enforceable Through Title V Permit
4. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005). [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity range of greater than 20 deg up to 30 deg, as determined by ASTM Method D 287, may be determined by using other equivalent test methods approved by APCO, ARB, and EPA. TVP of crude oil with API gravity of 20 deg or less may be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for the Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph". [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 (2000) e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623, 6.4.2] Federally Enforceable Through Title V Permit
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623, 6.3.6] Federally Enforceable Through Title V Permit
8. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity (if required). [District Rule 4623, 6.3.1] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

10. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit

11. Permittee shall keep in their facility at all times a copy of the letter sent to the APCO requesting participation in the Rule 4623 Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program, and maintain the records of annual tank inspections, maintenance, and cleaning to document the participation in the program. [District Rule 4623] Federally Enforceable Through Title V Permit

12. Permittee shall comply with all applicable Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program requirements specified in Tables 3 to 6 of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit

13. Permittee shall maintain records of TVP prior to tank interior cleaning and length of time to accomplish tank interior cleaning. [District NSR Rule & Rule 4623] Federally Enforceable Through Title V Permit

14. Permittee shall annually inspect hatch, tank seals and seams, cable seals, and piping components including but not limited to valves, flanges, and connectors directly affixed to the tank or within 5 feet of the tank. Inspections shall be conducted visually and using a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21. Permittee shall annually inspect, either visually or ultrasonically as appropriate, the external shells and roofs of uninsulated tanks for integrity. [District Rule 4623] Federally Enforceable Through Title V Permit

15. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 30 drops per minute or greater shall be repaired within 8 hours after detection. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 3 drops per minutes or greater but less than 30 drops per minute shall be repaired within 24 hours after detection. [District Rule 4623] Federally Enforceable Through Title V Permit

16. For leaking components directly affixed to the tank or within 5 feet of the tank, permittee shall immediately affix a tag and maintain records of liquid leak and gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak free condition. [District Rule 4623] Federally Enforceable Through Title V Permit

17. Leaking components directly affixed to the tank or within 5 feet of the tank that have been discovered by the operator and have been immediately tagged and repaired within the deadlines specified shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified shall constitute a violation of this rule. Any component directly affixed to the tank or within 5 feet of the tank found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program. [District Rule 4623] Federally Enforceable Through Title V Permit

18. Operator shall maintain an inspection log containing the following: 1) Location of leaking component; 2) Type of component leaking and leak emissions level detected; 3) Date of leak detection and method of detection; 4) Date of leak repair and method of repair; 5) Date and emission level of recheck after leak is repaired. This inspection log shall be made available to District personal upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

19. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure of the tank. [District Rule 4623, 5.4] Federally Enforceable Through Title V Permit

20. Operator shall determine the true vapor pressure of the organic liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

21. As used in this permit, the term "source or type of organic liquid" shall mean organic liquids with similar characteristics. The operator shall maintain records of API gravity of organic liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-48-5

EXPIRATION DATE: 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #282

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PERMIT UNIT REQUIREMENTS

1. True Vapor Pressure (TVP) of any material introduced, placed or stored in this tank shall be less than 11.0 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The tank shall be in a leak-free condition at all times, except as allowed for in Rule 4623. The pressure-vacuum (PV) relief valve shall be set to within 10% of the maximum allowable working pressure of the tank. The PV relief valve shall be permanently labeled with the operating pressure settings. The PV relief valve shall be properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve's set pressure. Any tank gauging or sampling device shall be equipped with a leak-free cover that shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.2] Federally Enforceable Through Title V Permit
3. In lieu of testing each uncontrolled fixed roof tank, the permittee may conduct a TVP testing of the organic liquid stored in a representative tank provided the requirements of Sections 6.2.1.1.1 through 6.2.1.1.5 are met. [District Rule 4623, 6.2.1] Federally Enforceable Through Title V Permit
4. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005). [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity range of greater than 20 deg up to 30 deg, as determined by ASTM Method D 287, may be determined by using other equivalent test methods approved by APCO, ARB, and EPA. TVP of crude oil with API gravity of 20 deg or less may be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for the Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph". [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 (2000) e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623, 6.4.2] Federally Enforceable Through Title V Permit
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623, 6.3.6] Federally Enforceable Through Title V Permit
8. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity (if required). [District Rule 4623, 6.3.1] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

10. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit

11. Permittee shall keep in their facility at all times a copy of the letter sent to the APCO requesting participation in the Rule 4623 Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program, and maintain the records of annual tank inspections, maintenance, and cleaning to document the participation in the program. [District Rule 4623] Federally Enforceable Through Title V Permit

12. Permittee shall comply with all applicable Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program requirements specified in Tables 3 to 6 of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit

13. Permittee shall maintain records of TVP prior to tank interior cleaning and length of time to accomplish tank interior cleaning. [District NSR Rule & Rule 4623] Federally Enforceable Through Title V Permit

14. Permittee shall annually inspect hatch, tank seals and seams, cable seals, and piping components including but not limited to valves, flanges, and connectors directly affixed to the tank or within 5 feet of the tank. Inspections shall be conducted visually and using a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21. Permittee shall annually inspect, either visually or ultrasonically as appropriate, the external shells and roofs of uninsulated tanks for integrity. [District Rule 4623] Federally Enforceable Through Title V Permit

15. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 30 drops per minute or greater shall be repaired within 8 hours after detection. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 3 drops per minutes or greater but less than 30 drops per minute shall be repaired within 24 hours after detection. [District Rule 4623] Federally Enforceable Through Title V Permit

16. For leaking components directly affixed to the tank or within 5 feet of the tank, permittee shall immediately affix a tag and maintain records of liquid leak and gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak free condition. [District Rule 4623] Federally Enforceable Through Title V Permit

17. Leaking components directly affixed to the tank or within 5 feet of the tank that have been discovered by the operator and have been immediately tagged and repaired within the deadlines specified shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified shall constitute a violation of this rule. Any component directly affixed to the tank or within 5 feet of the tank found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program. [District Rule 4623] Federally Enforceable Through Title V Permit

18. Operator shall maintain an inspection log containing the following: 1) Location of leaking component; 2) Type of component leaking and leak emissions level detected; 3) Date of leak detection and method of detection; 4) Date of leak repair and method of repair; 5) Date and emission level of recheck after leak is repaired. This inspection log shall be made available to District personal upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

19. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure of the tank. [District Rule 4623, 5.4] Federally Enforceable Through Title V Permit

20. Operator shall determine the true vapor pressure of the organic liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of organic liquid entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

21. As used in this permit, the term "source or type of organic liquid" shall mean organic liquids with similar characteristics. The operator shall maintain records of API gravity of organic liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-49-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,508 GALLON FIXED ROOF PETROLEUM STORAGE TANK #284

PERMIT UNIT REQUIREMENTS

1. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure of the tank. [District Rule 4623, 5.4] Federally Enforceable Through Title V Permit
2. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit
3. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005). [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity range of greater than 20 deg up to 30 deg, as determined by ASTM Method D 287, may be determined by using other equivalent test methods approved by APCO, ARB, and EPA. TVP of crude oil with API gravity of 20 deg or less may be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for the Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph". [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended May 19, 2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
7. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (amended 5/19/2005). [District Rule 4623]

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-52-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #803

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-79-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
113,736 GALLON FIXED ROOF STORAGE TANK #2009

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-133-3 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 3501)

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PERMIT UNIT REQUIREMENTS

1. Pressure/vacuum valve connected to tank shall activate at 0.5 oz. pressure and 0.5 oz. vacuum. [District NSR Rule] Federally Enforceable Through Title V Permit
2. All piping, valves and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging or sampling device shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Average daily throughput of total fluids (on a quarterly basis) shall not exceed 10,000 bbl/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Tank shall be equipped with stored liquid temperature indicator. [District Rule 2010] Federally Enforceable Through Title V Permit
6. Permittee shall maintain accurate records of storage temperature, maximum true vapor pressure, and daily fluid throughput of petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (as amended 5/19/2005). [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
11. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
14. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-134-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE/VACUUM VALVE. (ID# 3502)

PERMIT UNIT REQUIREMENTS

1. Pressure/vacuum valve connected to tank shall activate at 0.5 oz. pressure and 0.5 oz. vacuum. [District NSR Rule] Federally Enforceable Through Title V Permit
2. All piping, valves and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging or sampling device shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Average daily throughput of total fluids (on a quarterly basis) shall not exceed 10,000 bbl/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Tank shall be equipped with stored liquid temperature indicator. [District Rule 2010] Federally Enforceable Through Title V Permit
6. Permittee shall maintain accurate records of storage temperature, maximum true vapor pressure, and daily fluid throughput of petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (as amended 5/19/2005). [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
11. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
14. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-135-3 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

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EQUIPMENT DESCRIPTION:
1,008,000 GALLON, 60 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 24001)

PERMIT UNIT REQUIREMENTS

1. Pressure/vacuum valve connected to tank shall activate at 0.5 oz. pressure and 0.5 oz. vacuum. [District NSR Rule] Federally Enforceable Through Title V Permit
2. All piping, valves and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging or sampling device shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Average daily throughput of total fluids (on a quarterly basis) shall not exceed 10,000 bbl/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Tank shall be equipped with stored liquid temperature indicator. [District Rule 2010] Federally Enforceable Through Title V Permit
6. Permittee shall maintain accurate records of storage temperature, maximum true vapor pressure, and daily fluid throughput of petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (as amended 5/19/2005). [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
11. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
14. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-141-4

EXPIRATION DATE: 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
609 HP DIESEL-FIRED EMERGENCY IC ENGINE DRIVING A ELECTRICAL GENERATOR, EQUIPMENT #D-203

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PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated using only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight. [17 CCR 93115 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee must collect and submit an annual report including location, dates and times of operation if the engine operates for more than 15 hours and up to 100 hours per year for emergency demand response. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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12. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

13. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

14. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

16. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-142-4 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

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EQUIPMENT DESCRIPTION:
65 HP ONAN MODEL 30EK-4XR/3434A NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A 30 KW ELECTRIC GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter. [District NSR Rule, District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The permittee shall operate a non-resettable elapsed operating time meter. The owner or operator shall maintain the required meter in proper operating condition. [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
3. This engine shall only be fired on PUC quality natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
6. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The permittee must collect and submit an annual report including location, dates and times of operation if the engine operates for more than 15 hours and up to 100 hours per year for emergency demand response. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's spark plugs shall be inspected every 1000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-143-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-1

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-144-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-2

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-145-11

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ASPHALT AIR BLOWING OPERATION (STILL #1) WITH 690 BBL STILL, HOT OIL EXPANSION TANK, SEAL POT/HEAVY GAS OIL SCRUBBER, FIN FAN COOLER, AND 64.3 MMBTU/HR NATURAL GAS-FIRED OFFGAS INCINERATOR/PROCESS HEATER

PERMIT UNIT REQUIREMENTS

1. Incinerator may receive still offgas from stills #1 and #2 (S-44-145 and '146). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Incinerator fuel shall be PUC regulated natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Exhaust gas louver from incinerator to heat recovery section may be open only when still offgasses are being incinerated, including when still is being charged, pumped out, or when still blowers are operating. [District Rule 2010] Federally Enforceable Through Title V Permit
4. Incinerator fuel use shall not exceed 768 Mscf/day, 55,918 Mscf/quarter, and 223.7 MMscf/year. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Incinerator shall be equipped with operational continuous combustion zone temperature monitor/recorder (with +/- 20 degrees F accuracy over operating range). [40 CFR 60.473(b)] Federally Enforceable Through Title V Permit
6. Incinerator temperature shall be maintained at 1,450 degrees F minimum, or other temperature determined during initial compliance demonstration that results in compliance with VOC control efficiency and lb/hr emission limits. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Combined feedstock throughput for stills #1 (S-44-145) and #2 (S-44-146) shall not exceed 1,050 ton/day and it shall not exceed 259,150 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Incinerator VOC destruction efficiency shall be not less than 98% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Incinerator emission rate (shared w/ S-44-145 and '146), except during startup, shall not exceed either of the following: NOx: 25 ppmvd @ 15% O2, or CO: 16.5 ppmvd @ 15% O2. Incinerator startup shall not exceed 8 hr/day. [District NSR Rule and District Rule 4301] Federally Enforceable Through Title V Permit
10. Incinerator emission rate (shared w/ S-44-145 and '146) shall not exceed any of the following: PM10, 0.058 lbPM10/ton; SOx, 0.1676 lb SOx/ton; VOC, 0.075 lb VOC/ton of asphalt input. [District NSR Rule, District Rules 4201, 4301, and 40 CFR 60.472(b)(1)] Federally Enforceable Through Title V Permit
11. Incinerator emissions (shared with unit S-44-145 and S-44-146) shall not exceed any of the following: 77.0 lb NOx/day, or 20,550 lb NOx/year. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

13. The operator shall determine the asphalt blowing still's particulate matter emission rate (E) using the test methods and procedures prescribed in 40 CFR 60, Subpart UU, 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii). [40 CFR 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii)] Federally Enforceable Through Title V Permit
14. No operator shall cause to be discharged into the atmosphere from any blowing still, exhaust gases with an opacity greater than zero percent. [40 CFR 60.472(b)(5)] Federally Enforceable Through Title V Permit
15. Visible emissions test of the blowing still exhaust shall be conducted monthly using EPA Method 9. [40 CFR 60.474(c)(5) and 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit
17. This unit shall be tested for compliance with the SOx (lb/MMBtu) emissions limit at least once every 12 months using ARB Method 8 or 100 or EPA Method 6, 6B, 6C, or 8. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of SOx at least once every quarter (in which a source test is not performed) using gas detection (Draeger, Kitigawa, or equivalent) tubes. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
19. For gas detection tube monitoring, permittee shall determine sulfur content of incinerator exhaust gas every 30 minutes when receiving gas from the stills during blowing process. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
20. SOx emissions expressed as lbs-SOx/ton shall be calculated using the exhaust concentration of SOx obtained from Draeger tube analysis or source test, combined still blower flow rate and incinerator flow rate determined using EPA Method 19, and asphalt charge to the still in tons/hr. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
21. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
24. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081] Federally Enforceable Through Title V Permit
25. The following test methods shall be used: PM (kg/Mg) - EPA Method 5A and calculation procedures specified in NSPS Subpart UU; and PM10 (lb/ton) - ARB Method 201A & 202. [District Rules 1081 and 40 CFR 60.474] Federally Enforceable Through Title V Permit
26. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit
27. The portable analyzer shall be calibrated prior to each use with a two-point calibration method (zero and span). Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

28. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

29. Permittee shall maintain records of daily asphalt throughput (tons) for each still and daily, quarterly, and annual gas use, and quarterly gas detection tube readings for a period of five years and shall make such records readily available for District inspection upon request. [District NSR Rule, 1070, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

30. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and types of fuels combusted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-146-7

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ASPHALT AIR BLOWING OPERATION (STILL #2) WITH 690 BBL STILL AND VAPOR PIPING TO OFFGAS INCINERATOR LISTED ON S-44-145

PERMIT UNIT REQUIREMENTS

1. Feedstock throughput for stills #1 and #2 (S-44-145 and '146) shall not exceed that listed in S-44-145. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Emission rate shall not exceed that listed in S-44-145. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. No operator shall cause to be discharge into the atmosphere from any blowing still particulate matter in excess of 0.67 kilograms of particulate per megagram of asphalt charged to the still when a catalyst is added to the still; and particulate matter in excess of 0.60 kilograms of particulate per megagram of asphalt charged to the still during blowing without a catalyst. [40 CFR 60.472(b)(1) & (b)(3)] Federally Enforceable Through Title V Permit
5. The operator shall determine the asphalt blowing still's particulate matter emission rate (E) using the test methods and procedures prescribed in 40 CFR 60, Subpart UU, 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii). [40 CFR 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii)] Federally Enforceable Through Title V Permit
6. Exhaust gas louver from incinerator to heat recovery section may be open only when still offgasses are being incinerated, including when still is being charged, pumped out, or when still blowers are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Incinerator shall be equipped with operational continuous combustion zone temperature monitor/recorder (with +/- 20 degrees F accuracy over operating range). [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Incinerator temperature shall be maintained at 1,450 degrees F minimum, or other temperature determined during initial compliance demonstration that results in compliance with VOC control efficiency and lb/hr emission limits. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Incinerator VOC destruction efficiency shall be not less than 98% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Incinerator emission rate (shared w/ S-44-145 and '146), except during startup, shall not exceed either of the following: NOx: 25 ppmvd @ 15% O2, or CO: 16.5 ppmvd @ 15% O2. Incinerator startup shall not exceed 8 hr/day. [District NSR Rule and District Rule 4301] Federally Enforceable Through Title V Permit
11. Incinerator emission rate (shared w/ S-44-145 and '146) shall not exceed any of the following: PM10, 0.058 lbPM10/ton; SOx, 0.1676 lb SOx/ton; VOC, 0.075 lb VOC/ton of asphalt input. [District NSR Rule, District Rules 4201, 4301, and 40 CFR 60.472(b)(1)] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

12. Incinerator emissions (shared with unit S-44-145 and S-44-146) shall not exceed any of the following: 77.0 lb NOx/day, or 20,550 lb NOx/year. [District NSR Rule] Federally Enforceable Through Title V Permit
13. No operator shall cause to be discharged into the atmosphere from any blowing still, exhaust gases with an opacity greater than zero percent. [40 CFR 60.472(b)(5)] Federally Enforceable Through Title V Permit
14. Visible emissions test of the blowing still exhaust shall be conducted monthly using EPA Method 9. [40 CFR 60.474(c)(5) and 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit
16. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit
18. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-148-5 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
FLUX TRUCK UNLOADING AND HEATED RAILCAR UNLOADING OPERATIONS WITH 5000 BBL HEATED FLUX STORAGE TANK T-5025

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PERMIT UNIT REQUIREMENTS

1. Flux throughput for storage tank T-5025 shall not exceed 878,975 bbl/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. VOC emission rate shall not exceed 1.0 lb/day and 188 lb/year. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Permittee shall maintain records of bbls of flux received and shall make such records readily available for District inspection upon request. [District Rules 1070 and District NSR Rule] Federally Enforceable Through Title V Permit
4. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (amended 5/19/2005). [District Rule 4623] Federally Enforceable Through Title V Permit
5. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended May 19, 2005. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
8. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-149-5 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

DRAFT

EQUIPMENT DESCRIPTION:
2,600 BBL AIR BLOWN ASPHALT BLENDING TANK T-2601 WITH NITROGEN BLANKETING VENTING TO MONSANTO MODEL AVP 1000 ASPHALT VENT PACKAGE [SHARED WITH TANK T-2603 (S-44-150)] AND ONE CAMERON ENVIRONMENTAL MODEL TSU-4000R RADIAL FLOW VAPOR PHASE CARBON ADSORBER IN SERIES.

PERMIT UNIT REQUIREMENTS

1. Exhaust gases shall not exceed 0% opacity, except for one consecutive 15 minute maximum period in any 24-hour period, when the transfer lines are blown for cleaning. The control device shall not be by-passed during this 15-minute period. [District NSR Rule and 40 CFR 60.472(c)] Federally Enforceable Through Title V Permit
2. Tank shall vent only to control system. [District NSR Rule] Federally Enforceable Through Title V Permit
3. VOC emission rate shall not exceed 1.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the ABA facility, or any malfunction of the air pollution control equipment. [District Rule 4001] Federally Enforceable Through Title V Permit
5. Visible emissions inspection for the asphalt storage tank shall be conducted on a monthly basis using EPA Method 9. Records of the inspection shall be kept, maintained, and made available upon request. [District Rule 2520, 9.3.2 and 40 CFR 60.474(c)(5)] Federally Enforceable Through Title V Permit
6. This tank shall only be used to store asphalt with True Vapor Pressure (TVP) less than 3.5 KPa (0.5 psia). [District Rule 4623 and Subpart Kb 60.110b (c)] Federally Enforceable Through Title V Permit
7. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/2005). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended 5/19/2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
10. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: S-44-150-4

EXPIRATION DATE: 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
2,600 BBL/109,200 GALLON AIR BLOWN ASPHALT BLENDING TANK T-2603 WITH NITROGEN BLANKETING VENTING TO SHARED MONSANTO MIST ELIMINATOR LISTED ON TANK T-2601 (S-44-149)

PERMIT UNIT REQUIREMENTS

1. Exhaust gases shall not exceed 0% opacity, except for one consecutive 15 minute maximum period in any 24-hour period, when the transfer lines are blown for cleaning. The control device shall not be by-passed during this 15-minute period. [District NSR Rule and 40 CFR 60.472(c)] Federally Enforceable Through Title V Permit
2. Tank shall vent only to control system. [District NSR Rule] Federally Enforceable Through Title V Permit
3. VOC emission rate shall not exceed 1.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the ABA facility, or any malfunction of the air pollution control equipment. [District Rule 4001] Federally Enforceable Through Title V Permit
5. Visible emissions inspection for the asphalt storage tank shall be conducted on a monthly basis using EPA Method 9. Records of the inspection shall be kept, maintained, and made available upon request. [District Rule 2520, 9.3.2 and 40 CFR 60.474(c)(5)] Federally Enforceable Through Title V Permit
6. This tank shall only be used to store asphalt with True Vapor Pressure (TVP) less than 3.5 KPa (0.5 psia). [District Rule 4623 and Subpart Kb 60.110b (c)] Federally Enforceable Through Title V Permit
7. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/2005). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended 5/19/2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
10. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-152-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-153-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-154-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80003

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-155-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80004

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-156-3

EXPIRATION DATE: 08/31/2016

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SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
96,000 BBL ASPHALT STORAGE TANK T-96001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-157-3

EXPIRATION DATE: 08/31/2016

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SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
400 BBL (17,000 GALLON) FIXED ROOF PETROLEUM LIQUIDS STORAGE TANK #TK-401 WITH TRUCK LOADOUT

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a pressure/vacuum relief valve set to within 10% of the maximum allowable working pressure of the tank. [District NSR Rule and District Rule 4623, 5.4] Federally Enforceable Through Title V Permit
2. Tank shall be equipped with vapor balance return line from trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Vapor return hose shall be connected to tank vapor space whenever stored liquids are being transferred into trucks and all vapor displaced during truck loading shall be returned to tank. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Reid vapor pressure of material stored in tank shall not exceed 3.7 psia. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Emission rate from storage tank shall not exceed 11.0 lbs VOC per day and 4,030 lbs VOC per year. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Emission rate from truck loading operation shall not exceed 1.5 lbs VOC per day and 373 lbs VOC per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Tank throughput (i.e. amount loaded into trucks) shall not exceed 3,999 gallons per day and 1,051,200 gallons per year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records of amount of liquids transferred to trucks on a daily and annual basis. Records shall be kept and made readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit
10. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCD. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/2005). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended 5/19/2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit

13. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-158-3

EXPIRATION DATE: 08/31/2016

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SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
10,000 BBL ASPHALT STORAGE TANK TK-10025

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-160-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-161-3

EXPIRATION DATE: 08/31/2016

DRAFT

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
211,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-165-3

EXPIRATION DATE: 08/31/2016

DRAFT

EQUIPMENT DESCRIPTION:
TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104373)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO-approved alternative. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
3. Permittee shall properly operate and maintain engine and monitor the operational characteristics of the engine as recommended by the engine manufacturer. [District Rule 4702] Federally Enforceable Through Title V Permit
4. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
5. This nonroad transportable engine shall not be operated at one location for more than 12 consecutive months and shall meet all the requirements of a nonroad transportable engine, per CFR Title 40 Part 89. [CCR, Title 17 and District Rule 4701] Federally Enforceable Through Title V Permit
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
7. Operation of IC engine shall not exceed 200 hours/yr without prior District approval through issuance of an Authority to Construct. [District Rules 2201, 4102 and 4702] Federally Enforceable Through Title V Permit
8. NOx emissions (referenced as NO2) shall not exceed 3.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions (referenced as methane) shall not exceed 0.2 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. CO emissions shall not exceed 0.9 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The PM10 emissions rate from the engine shall not exceed 0.25 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
12. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
13. The operator shall maintain records of the cumulative hours of operation on a 12 month rolling average. These records shall be updated at least monthly. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records including the date, the number of hours of operation, the purpose of the operation, the type of fuel used, and records of operational characteristics monitoring. [District Rule 4702] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

15. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-166-3

EXPIRATION DATE: 08/31/2016

DRAFT

EQUIPMENT DESCRIPTION:
TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104372)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO-approved alternative. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
3. Permittee shall properly operate and maintain engine and monitor the operational characteristics of the engine as recommended by the engine manufacturer. [District Rule 4702] Federally Enforceable Through Title V Permit
4. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
5. This nonroad transportable engine shall not be operated at one location for more than 12 consecutive months and shall meet all the requirements of a nonroad transportable engine, per CFR Title 40 Part 89. [CCR, Title 17 and District Rule 4701] Federally Enforceable Through Title V Permit
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
7. Operation of IC engine shall not exceed 200 hours/yr without prior District approval through issuance of an Authority to Construct. [District Rules 2201, 4102 and 4702] Federally Enforceable Through Title V Permit
8. NOx emissions (referenced as NO2) shall not exceed 3.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions (referenced as methane) shall not exceed 0.2 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. CO emissions shall not exceed 0.9 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The PM10 emissions rate from the engine shall not exceed 0.25 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
12. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
13. The operator shall maintain records of the cumulative hours of operation on a 12 month rolling average. These records shall be updated at least monthly. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records including the date, the number of hours of operation, the purpose of the operation, the type of fuel used, and records of operational characteristics monitoring. [District Rule 4702] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

15. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Facility # S-44
TRICOR REFINING LLC
PO BOX 5877
BAKERSFIELD, CA 93308

Notice of Permit Issuance

The enclosed permit unit requirements authorize the operation of the equipment as described. These permit unit requirements supersede any and all previous permits for the specified equipment.* Please insert these documents into the Facility Permit to Operate, and post copies on or near the equipment as required by District Rule 2010.

Please contact any of our Small Business Assistance (SBA) staff at the numbers below if you have any questions:

Modesto:	(209) 557-6446
Fresno:	(559) 230-5888
Bakersfield:	(661) 392-5665

*Failure to comply with the permit unit requirements may result in enforcement action.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Permit to Operate

FACILITY: S-44

EXPIRATION DATE: 08/31/2016

LEGAL OWNER OR OPERATOR: TRICOR REFINING LLC
MAILING ADDRESS: PO BOX 5877
BAKERSFIELD, CA 93308

FACILITY LOCATION: 1134 MANOR ST
BAKERSFIELD, CA 93308

FACILITY DESCRIPTION: PETROLEUM REFINERY

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

Arnaud Marjollet
Director of Permit Services

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

San Joaquin Valley
Air Pollution Control District

FACILITY: S-44-0-2 **EXPIRATION DATE:** 08/31/2016

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. 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] Federally Enforceable Through Title V Permit

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10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit

12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit

13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit

14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit

15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit

16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit

17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit

18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit

19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit

20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit

21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

22. 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 (02/17/05). 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, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit

24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit

25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit

26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit

27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit

28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit

29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit

30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit

31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit

32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit

33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit

35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit

37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit

38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit

39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

42. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit

43. A component shall be considered leaking if one or more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of District Rule 4455 (adopted 4/20/05) exist at the facility. A leak is the dripping of VOC-containing liquid or the detection of a concentration of total organic compound, above background, determined according to the test method specified in Section 6.4.1 that exceeds the limits in Table 1, Sections 3.22.1 and Section 3.22.2 of District Rule 4455. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from a component into a container is not considered a leak provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 3.22] Federally Enforceable Through Title V Permit

44. The operator shall not use any component that leaks in excess of the allowable leak standards of District Rule 4455 (adopted 4/20/05), or is found to be in violation of the provisions specified in Section 5.1.3. A component identified as leaking in excess of an allowable leak standard may be used provided it has been identified with a tag for repair, has been repaired, or is awaiting re-inspection after repair, within the applicable time period specified within the rule. [District Rule Rule 4455, 5.1.1] Federally Enforceable Through Title V Permit

45. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 5.1.2] Federally Enforceable Through Title V Permit

46. The operator shall be in violation of Rule 4455 (adopted 4/20/05) if any District inspection demonstrates that one or more of the conditions in Sections 5.1.4 exist at the facility. [District Rule 4455, 5.1.3.1] Federally Enforceable Through Title V Permit

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47. Except for annual operator inspection described in Section 5.1.3.2.3, District Rule 4455 (adopted 4/20/05), any operator inspection that demonstrates that one or more of the conditions in Section 5.1.4, District Rule 4455, exist at the facility shall not constitute a violation of District Rule 4455 if the leaking components are repaired as soon as practicable but not later than the time frame specified in District Rule 4455. Such components shall not be counted towards determination of compliance with the provisions of Section 5.1.4. [District Rule 4455, 5.1.3.2.1] Federally Enforceable Through Title V Permit

48. Leaking components detected during operator inspection pursuant Section 5.1.3.2.1, District Rule 4455 (adopted 4/20/05) that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in District Rule 4455 shall be counted toward determination of compliance with the provisions of Section 5.1.4. [District Rule 4455, 5.1.3.2.2] Federally Enforceable Through Title V Permit

49. Any operator inspection conducted annually for a component type (including operator annual inspections pursuant to Section 5.2.5, 5.2.6, 5.2.7, or 5.2.8) that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall constitute a violation of District Rule 4455 (adopted 4/20/05) regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in District Rule 4455. [District Rule 4455, 5.1.3.2.3] Federally Enforceable Through Title V Permit

50. The operator shall audio-visually inspect for leaks all accessible operating pumps, compressors, and Pressure Relief Devices (PRDs) in service at least once every 24 hours, except when operators do not report to the facility for that given 24 hours. Any identified leak that cannot be immediately repaired shall be reinspected within 24 hours using a portable analyzer. If a leak is found, it shall be repaired as soon as practical but not later than the time frame specified in Table 3 of District Rule 4455 (adopted 4/20/05). [District Rule 4455, 5.2.1 & 5.2.2] Federally Enforceable Through Title V Permit

51. The operator shall inspect all components at least once every calendar quarter, except for inaccessible components, unsafe-to-monitor components and pipes. Inaccessible components, unsafe-to-monitor components and pipes shall be inspected in accordance with the requirements set forth in Sections 5.2.5, 5.2.6, and 5.2.7, District Rule 4455 (adopted 4/20/05). New, replaced, or repaired fittings, flanges and threaded connections shall be inspected immediately after being placed into service. Components shall be inspected using EPA Method 21. [District Rule 4455, 5.2.3, 5.2.4, 5.2.5, 5.2.6 & 5.2.7] Federally Enforceable Through Title V Permit

52. The operator may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually for a component type, provided the operator meets all the criteria specified in Sections 5.2.8.1 through 5.2.8.3, District Rule 4455 (adopted 4/20/05). This approval shall apply to accessible component types, specifically designated by the APCO, except pumps, compressors, and PRDs which shall continue to be inspected on a quarterly basis. [District Rule 4455, 5.2.8] Federally Enforceable Through Title V Permit

53. An annual inspection frequency approved by the APCO shall revert to quarterly inspection frequency for a component type if either the operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2 and 5.3 of District Rule 4455 (adopted 4/20/05) exists for that component type, or the APCO issued a Notice of Violation for violating any of the provisions of District Rule 4455 during the annual inspection period for that component type. When the inspection frequency changes from annual to quarterly inspections, the operator shall notify the APCO in writing within five (5) calendar days after changing the inspection frequency, giving the reason(s) and date of change to quarterly inspection frequency. [District Rule 4455, 5.2.9 & 5.2.10] Federally Enforceable Through Title V Permit

54. The operator shall initially inspect a process PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the time of the release. To insure that the process PRD is operating properly, and is leak-free, the operator shall re-inspect the process PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the release using EPA Method 21. If the process PRD is found to be leaking at either inspection, the PRD leak shall be treated as if the leak was found during quarterly operator inspections. [District Rule 4455, 5.2.11] Federally Enforceable Through Title V Permit

55. Except for process PRD, a component shall be inspected within 15 calendar days after repairing the leak or replacing the component using EPA Method 21. [District Rule 4455, 5.2.12] Federally Enforceable Through Title V Permit

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56. Upon detection of a leaking component, the operator shall affix to that component a weatherproof readily visible tag that contains the information specified in Section 5.3.3 of District Rule 4455 (adopted 4/20/05). The tag shall remain affixed to the component until the leaking component has been repaired or replaced; has been re-inspected using EPA Method 21; and is found to be in compliance with the requirements of District Rule 4455. [District Rule 4455, 5.3.1 5.3.2 and 5.3.3] Federally Enforceable Through Title V Permit

57. An operator shall minimize all component leaks immediately to the extent possible, but not later than one (1) hour after detection of leaks in order to stop or reduce leakage to the atmosphere. [District Rule 4455, 5.3.4] Federally Enforceable Through Title V Permit

58. If the leak has been minimized but the leak still exceeds the applicable leak standards of District Rule 4455 (adopted 4/20/05), an operator shall repair or replace the leaking component, vent the leaking component to a closed vent system, or remove the leaking component from operation as soon as practicable but not later than the time period specified in Table 3. For each calendar quarter, the operator may be allowed to extend the repair period as specified in Table 3, for a total number of leaking components, not to exceed 0.05 percent of the number of components inspected, by type, rounded upward to the nearest integer where required. [District Rule 4455, 5.3.5] Federally Enforceable Through Title V Permit

59. If the leaking component is an essential component or a critical component and which cannot be immediately shut down for repairs, the operator shall minimize the leak within one hour after detection of the leak. If the leak has been minimized, but the leak still exceeds any of the applicable leak standards of District Rule 4455 (adopted 4/20/05), the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4455 5.3.6] Federally Enforceable Through Title V Permit

60. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or any combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall comply with at least one of the requirements specified in Sections 5.3.7.1, 5.3.7.2, 5.3.7.3, or 5.3.7.4 of District Rule 4455 (adopted 4/20/05) by the applicable deadlines specified in Sections 5.3.7.5 and 5.3.7.6. If the original leaking component is replaced with a new like-in-kind component before incurring five repair actions for major leaks within 12-consecutive months, the repair count shall start over for the new component. An entire compressor or pump need not be replaced provided the compressor part(s) or pump part(s) that have incurred five repair actions as described in Section 5.3.7 are brought into compliance with at least one of the requirements of Sections 5.3.7.1 through 5.3.7.6. [District Rule 4455, 5.3.7] Federally Enforceable Through Title V Permit

61. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the APCO that enables an operator or District personnel to locate each individual component. The operator shall replace tags or labels that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. The operator shall comply with the requirements of Sections 6.1.4 of District Rule 4455 (adopted 4/20/05) if there is any change in the description of major components or critical components. [District Rule 4455, 5.5.1 & 5.5.2] Federally Enforceable Through Title V Permit

62. The operator shall keep a copy of the operator management plan at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved operator management plan. [District Rule 4455, 6.1.2 & 6.1.4] Federally Enforceable Through Title V Permit

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63. The operator shall maintain an inspection log containing, at a minimum, 1) total number of components inspected, and total number and percentage of leaking components found by component types, 2) location, type, name or description of each leaking component, and description of any unit where the leaking component is found, 3) date of leak detection and method of leak detection, 4) for gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak, 5) date of repair, replacement, or removal from operation of leaking components, 6) identification and location of essential component and critical components found leaking that cannot be repaired until the next process unit turnaround or not later one year after leak detection, whichever comes earlier, 7) methods used to minimize the leak from essential components and critical components that cannot be repaired until the next process unit turnaround or not later one year after leak detection, whichever comes earlier, 8) after the component is repaired or is replaced, the date of reinspection and the leak concentration in ppmv, 9) inspector's name, business mailing address, and business telephone number, and 10) the facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log. [District Rule 4455, 6.2.1] Federally Enforceable Through Title V Permit

64. Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, analyzer reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration. [District Rule 4455, 6.2.3] Federally Enforceable Through Title V Permit

65. The operator shall notify the APCO, by telephone or other methods approved by the APCO, of any process PRD release described in Sections 5.4.4 and 5.4.5 of District Rule 4455 (adopted 4/20/05) and any release in excess of the reportable quantity limits as stipulated in 40 CFR, Part 117, Part 302 and Part 355, including any release in excess of 100 pounds of VOC, within one hour of such occurrence or within one hour of the time said person knew or reasonably should have known of its occurrence. [District Rule 4455, 6.3.1] Federally Enforceable Through Title V Permit

66. Copies of all records shall be retained for a minimum of five (5) years after the date of an entry. Such records shall be made available to the APCO, ARB, or US EPA upon request. [District Rule 4455, 6.2.2, 6.2.3 & 6.2.4] Federally Enforceable Through Title V Permit

67. Measurements of gaseous leak concentrations shall be conducted according to US EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in US EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. [District Rule 4455, 6.4.1] Federally Enforceable Through Title V Permit

68. The VOC content shall be determined using American Society of Testing and Materials (ASTM) D 1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4455, 6.4.2] Federally Enforceable Through Title V Permit

69. The percent by volume liquid evaporated at 150 °C shall be determined using ASTM D 86. [District Rule 4455, 6.4.3] Federally Enforceable Through Title V Permit

70. For a given process unit, an owner or operator may elect to comply with the requirements of §60.592 (b)(1), (2), or (3) as an alternative to the requirements in §60.482-7. [40 CFR 60.592(b)] Federally Enforceable Through Title V Permit

71. Compressors in hydrogen service are exempt from the requirements of §60.592 if an owner or operator demonstrates that a compressor is in hydrogen service. [40 CFR 60.593(b)(1)] Federally Enforceable Through Title V Permit

72. Each compressor is presumed not to be in hydrogen service unless an owner or operator demonstrates that the piece of equipment is in hydrogen service. For a piece of equipment to be considered in hydrogen service, it must be determined that the percent hydrogen content can be reasonably expected always to exceed 50 percent by volume. For purposes of determining the percent hydrogen content in the process fluid that is contained in or contacts a compressor, procedures that conform to the general method described in ASTM E260-73, 91, or 96, E168-67, 77, or 92, or E169-63, 77, or 93 (incorporated by reference as specified in §60.17) shall be used. [40 CFR 60.593(b)(2)] Federally Enforceable Through Title V Permit

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73. An owner or operator may use engineering judgment rather than procedures in §60.593(b)(2) to demonstrate that the percent content exceeds 50 percent by volume, provided the engineering judgment demonstrates that the content clearly exceeds 50 percent by volume. When an owner or operator and the Administrator do not agree on whether a piece of equipment is in hydrogen service, however, the procedures in §60.593(b)(2) shall be used to resolve the disagreement. If an owner or operator determines that a piece of equipment is in hydrogen service, the determination can be revised only after following the procedures in §60.593(b)(2). [40 CFR 60.593(b)(3)] Federally Enforceable Through Title V Permit

74. Any existing reciprocating compressor that becomes an affected facility under provisions of §60.14 or §60.15 is exempt from §60.482-3(a), (b), (c), (d), (e), and (h) provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of §60.482-3(a), (b), (c), (d), (e), and (h). [40 CFR 60.593(c)] Federally Enforceable Through Title V Permit

75. An owner or operator may use the following provision in addition to §60.485(e): Equipment is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM Method D86-78, 82, 90, 95, or 96 (incorporated by reference as specified in §60.17). [40 CFR 60.593(d)] Federally Enforceable Through Title V Permit

76. Open-ended valves or lines containing asphalt as defined in §60.591 are exempt from the requirements of §60.482-6(a) through (c). [40 CFR 60.593(f)] Federally Enforceable Through Title V Permit

77. Light liquid service shall mean the equipment contains a liquid that meets all of the following conditions: (a) the vapor pressure of one or more of the components is greater than 0.3 kPa at 20 °C as determined by ASTM D 2879, (b) the total concentration of the pure components having a a vapor pressure greater than 0.3 kPa at 20 °C is equal to or greater than 20 percent by weight, and (c) the fluid is a liquid at operating conditions. In addition, an owner or operator may use the following provision: an equipment is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM D 86. [40 CFR 60.485(e) and 60.593(d)] Federally Enforceable Through Title V Permit

78. Gas/vapor service shall mean the equipment contains process fluids that is in the gaseous state at operating conditions. [40 CFR 60.481] Federally Enforceable Through Title V Permit

79. Heavy liquid service shall mean the equipment is not in gas/vapor service or in light liquid service. [40 CFR 60.481] Federally Enforceable Through Title V Permit

80. Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485(b), except as provided in §60.482-1(c) and (f) and §60.482-2(d), (e), and (f). A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in §60.482-1(c) and (f) and §60.482-2(d), (e), and (f). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. [40 CFR 60.482-2(a)(1) and (b)(1)] Federally Enforceable Through Title V Permit

81. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, except as provided in §60.482-1(f). If there are indications of liquids dripping from the pump seal, the owner or operator shall follow the procedure specified in either paragraph §60.482-2(b)(2)(i) or (ii). This requirement does not apply to a pump that was monitored after a previous weekly inspection if the instrument reading for that monitoring event was less than 10,000 ppm and the pump was not repaired since that monitoring event. [CFR 60.482-2(a)(2) and (b)(2)] Federally Enforceable Through Title V Permit

82. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the practices described in paragraphs §60.482-2(c)(2)(i) and (ii) of this section, where practicable. [40 CFR 60.482-2(c)] Federally Enforceable Through Title V Permit

83. Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (a) of this section, provided the requirements specified in paragraphs §60.482-2(d)(1) through (6). [40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit

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84. Any pump that is designated, as described in §60.486(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs §60.482-2(a), (c), and (d) of this section if the pump has no externally actuated shaft penetrating the pump housing, is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in §60.485(c), and is tested for compliance with paragraph (e)(2) of this section initially upon designation, annually, and at other times requested by the District. [40 CFR 60.482-2(e)] Federally Enforceable Through Title V Permit

85. If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of §60.482-10, it is exempt from paragraphs §60.482-2(a) through (e). [40 CFR 60.482-2(f)] Federally Enforceable Through Title V Permit

86. Any pump that is designated, as described in §60.486(f)(1), as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of paragraphs §60.482-2(a) and (d)(4) through (6) if the owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph §60.482-2(a); and the owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in paragraph §60.482-2(c) if a leak is detected. [40 CFR 60.482-2(g)] Federally Enforceable Through Title V Permit

87. Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs §60.482-2(a)(2) and (d)(4), and the daily requirements of paragraph §60.482-2(d)(5), provided that each pump is visually inspected as often as practicable and at least monthly. [CFR 60.482-2(h)] Federally Enforceable Through Title V Permit

88. Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs §60.482-3(h), (i), and (j). [40 CFR 60.482-3(a)] Federally Enforceable Through Title V Permit

89. Each compressor seal system as required in paragraph §60.482-3(a) shall be operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of §60.482-10; or equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. [40 CFR 60.482-3(b)] Federally Enforceable Through Title V Permit

90. The barrier fluid system shall be in heavy liquid service or shall not be in VOC service. [40 CFR 60.482-3(c)] Federally Enforceable Through Title V Permit

91. Each barrier fluid system as described in paragraph §60.482-3(a) shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both. Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined, a leak is detected. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [40 CFR 60.482-3(d), (e), (f), and (g)] Federally Enforceable Through Title V Permit

92. A compressor is exempt from the requirements of paragraphs §60.482-3(a) and (b), if it is equipped with a closed vent system to capture and transport leakage from the compressor drive shaft back to a process or fuel gas system or to a control device that complies with the requirements of §60.482-10, except as provided in paragraph §60.482-3(i). [40 CFR 60.482-3(h)] Federally Enforceable Through Title V Permit

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93. Any compressor that is designated, as described in §60.486(e) (1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs §60.482-3(a)-(h) if the compressor is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in §60.485(c); and is tested for compliance initially upon designation, annually, and at other times requested by the District. [40 CFR 60.482-3(i)] Federally Enforceable Through Title V Permit

94. Any existing reciprocating compressor in a process unit which becomes an affected facility under provisions of §60.14 or §60.15 is exempt from paragraphs §60.482-3(a) through (e) and (h), provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of paragraphs §60.482-3 (a) through (e) and (h). [40 CFR 60.482-3(j)] Federally Enforceable Through Title V Permit

95. Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485(c). [40 CFR 60.482-4(a)] Federally Enforceable Through Title V Permit

96. After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in §60.482-9. No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in §60.485(c). [40 CFR 60.482-4(b)] Federally Enforceable Through Title V Permit

97. Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in §60.482-10 is exempted from the requirements of paragraphs§60.482-4(a) and (b). [40 CFR 60.482-4(c)] Federally Enforceable Through Title V Permit

98. Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the requirements of paragraphs §60.482-4(a) and (b), provided the owner or operator, after each pressure release, installs a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in §60.482-9. [40 CFR 60.482-4(d)] Federally Enforceable Through Title V Permit

99. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and §60.482-5(c). [40 CFR 60.482-5(a)] Federally Enforceable Through Title V Permit

100. Each closed-purge, closed-loop, or closed-vent system as required in §60.482-5(a) shall comply with the requirements specified in §60.482-5(b)(1) through (4). [40 CFR 60.482-5(b)] Federally Enforceable Through Title V Permit

101. In situ sampling systems and sampling systems without purges are exempt from the requirements of paragraphs §60.482-5(a) and (b). [40 CFR 60.482-5(c)] Federally Enforceable Through Title V Permit

102. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1(c) and §60.482-6(d) and (e). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. [40 CFR 60.482-6(a)] Federally Enforceable Through Title V Permit

103. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6(b)] Federally Enforceable Through Title V Permit

104. When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with §60.482-6(a) at all other times. [40 CFR 60.482-6(c)] Federally Enforceable Through Title V Permit

105. Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of §60.482-6(a), (b) and (c). [40 CFR 60.482-6(d)] Federally Enforceable Through Title V Permit

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106. Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in §60.482-6(a) through (c) are exempt from the requirements of §60.482-6(a) through (c) of this section. [40 CFR 60.482-6(e)] Federally Enforceable Through Title V Permit

107. Each valve in gas/vapor service and in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485(b) and shall comply with §60.482-7(b) through (e), except as provided in §60.482-7(f), (g), and (h), §60.482-1(c) and (f), and §60.483-1 and §60.483-2. A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for the process unit must be monitored according to §60.482-7(a)(2)(i) or (ii), except for a valve that replaces a leaking valve and except as provided in §60.482-7(f), (g), and (h), §60.482-1(c), §60.483-1, and §60.483-2. [40 CFR 60.482-7(a)] Federally Enforceable Through Title V Permit

108. If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors, the owner or operator shall follow either one of the following procedures: (1) The owner or operator shall monitor the equipment within 5 days by the method specified in §60.485(b) and shall comply with the requirements of §60.482-8(b) through (d). (2) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection. [40 CFR 60.482-8(a)] Federally Enforceable Through Title V Permit

109. Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit. [40 CFR 60.482-9(a)] Federally Enforceable Through Title V Permit

110. Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service. [40 CFR 60.482-9(b)] Federally Enforceable Through Title V Permit

111. Delay of repair for valves will be allowed if the owner or operator demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with §60.482-10. [40 CFR 60.482-9(c)] Federally Enforceable Through Title V Permit

112. Delay of repair for pumps will be allowed if repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and repair is completed as soon as practicable, but not later than 6 months after the leak was detected. [40 CFR 60.482-9(d)] Federally Enforceable Through Title V Permit

113. Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown. [40 CFR 60.482-9(e)] Federally Enforceable Through Title V Permit

114. When delay of repair is allowed for a leaking pump or valve that remains in service, the pump or valve may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition. [40 CFR 60.482-9(f)] Federally Enforceable Through Title V Permit

115. Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent. [40 CFR 60.482-10(b)] Federally Enforceable Through Title V Permit

116. Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C. [40 CFR 60.482-10(c)] Federally Enforceable Through Title V Permit

117. Flares used to comply with this subpart shall comply with the requirements of §60.18. [40 CFR 60.482-10(d)] Federally Enforceable Through Title V Permit

118. Owners or operators of control devices shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. [40 CFR 60.482-10(e)] Federally Enforceable Through Title V Permit

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119. Except as provided in §60.482-10(i) through (k), each closed vent system shall be inspected according to the procedures and schedule specified in §60.482-10(f)(1) and (f)(2). [40 CFR 60.482-10(f)] Federally Enforceable Through Title V Permit

120. Leaks in closed vent systems and control devices, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practicable except as provided in §60.482-10(h). A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 15 calendar days after the leak is detected. [40 CFR 60.482-10(g)] Federally Enforceable Through Title V Permit

121. Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown. [40 CFR 60.482-10(h)] Federally Enforceable Through Title V Permit

122. If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2). [40 CFR 60.482-10(i)] Federally Enforceable Through Title V Permit

123. Any parts of the closed vent system that are designated, as described in §60.482-10(l)(1) of this section, as unsafe to inspect are exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2) if they comply with the following requirements: (1) The owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with §60.482-10(f)(1)(i) or (f)(2); and (2) The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. [40 CFR 60.482-10(j)] Federally Enforceable Through Title V Permit

124. Any parts of the closed vent system that are designated, as described in §60.482-10(l)(2), as difficult to inspect are exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2) if they comply with the following requirements: (1) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and (2) The process unit within which the closed vent system is located becomes an affected facility through §60.14 or §60.15, or the owner or operator designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and (3) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum. [40 CFR 60.482-10(k)] Federally Enforceable Through Title V Permit

125. The owner or operator shall record the following information: (1) Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment. (2) Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment. (3) For each inspection during which a leak is detected, a record of the information specified in §60.486(c). (4) For each inspection conducted in accordance with §60.485(b) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. (5) For each visual inspection conducted in accordance with §60.482-10(f)(1)(ii) of this section during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 60.482-10(l)]

126. Closed vent systems and control devices used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them. [40 CFR 60.482-10(m)] Federally Enforceable Through Title V Permit

127. The owner or operator shall determine compliance with the standards in §60.482-1 through §60.482-10, §60.483, and §60.484 as follows: EPA Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in EPA Method 21. The following calibration gases shall be used: zero air (less than 10 ppm of hydrocarbon in air); and a mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [40 CFR 60.485(b)] Federally Enforceable Through Title V Permit

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128. The owner or operator shall determine compliance with the no detectable emission standards in §60.482-2(e), §60.482-3(i), §60.482-4, §60.482-7(f), and §60.482-10(e) as follows: (1) The requirements of §60.485(b) shall apply and (2) EPA Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance. [40 CFR 60.485(c)] Federally Enforceable Through Title V Permit

129. The owner or operator shall test each piece of equipment unless he demonstrates that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used: (1) Procedures that conform to the general methods in ASTM E260-73, 91, or 96, E168-67, 77, or 92, E169-63, 77, or 93 (incorporated by reference-see §60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment, (2) Organic compounds that are considered by the District to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid, (3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the District disagrees with the judgment, §60.485(d) (1) and (2) shall be used to resolve the disagreement. [40 CFR 60.485(d)] Federally Enforceable Through Title V Permit

130. The owner or operator shall demonstrate that a piece of equipment is in light liquid service by showing that all the following conditions apply: (1) The vapor pressure of one or more of the organic components is greater than 0.3 kPa at 20 °C (1.2 in. H2O at 68 °F). Standard reference texts or ASTM D2879-83, 96, or 97 (incorporated by reference-see §60.17) shall be used to determine the vapor pressures, (2) The total concentration of the pure organic components having a vapor pressure greater than 0.3 kPa at 20 °C (1.2 in. H2O at 68 °F) is equal to or greater than 20 percent by weight, (3) The fluid is a liquid at operating conditions. [40 CFR 60.485(e)] Federally Enforceable Through Title V Permit

131. Samples used in conjunction with §60.485(d), (e), and (g) shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare. [40 CFR 60.485(f)] Federally Enforceable Through Title V Permit

132. The owner or operator shall determine compliance with the standards of flares as stated in §60.485(g). [40 CFR 60.485(g)] Federally Enforceable Through Title V Permit

133. The owner or operator shall determine compliance with §60.483-1 or §60.483-2 as follows: (1) The percent of valves leaking shall be determined using the following equation: %VL= (VL/VT) * 100, Where: %VL= Percent leaking valves, VL= Number of valves found leaking, VT= The sum of the total number of valves monitored, (2) The total number of valves monitored shall include difficult-to-monitor and unsafe-to-monitor valves only during the monitoring period in which those valves are monitored, (3) The number of valves leaking shall include valves for which repair has been delayed, (4) Any new valve that is not monitored within 30 days of being placed in service shall be included in the number of valves leaking and the total number of valves monitored for the monitoring period in which the valve is placed in service, (5) If the process unit has been subdivided in accordance with §60.482-7(c)(1)(ii), the sum of valves found leaking during a monitoring period includes all subgroups, (6) The total number of valves monitored does not include a valve monitored to verify repair. [40 CFR 60.485(h)] Federally Enforceable Through Title V Permit

134. An owner or operator of more than one affected facility subject to the provisions of this subpart may comply with the recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(2)] Federally Enforceable Through Title V Permit

135. When each leak is detected as specified in §60.482-2, §60.482-3, §60.482-7, §60.482-8, and §60.483-2 the following requirements apply: (1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment; (2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in §60.482-7(c) and no leak has been detected during those 2 months; (3) The identification on equipment except on a valve, may be removed after it has been repaired. [40 CFR 60.486(b)] Federally Enforceable Through Title V Permit

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136. When each leak is detected the following information shall be recorded in a log and kept in a readily accessible location: (1) The instrument and operator identification numbers and the equipment identification number; (2) The date the leak was detected and the dates of each attempt to repair the leak; (3) Repair methods applied in each attempt to repair the leak; (4) "Above 10,000" if the maximum instrument reading measured by the methods specified in §60.485(a) after each repair attempt is equal to or greater than 10,000 ppm; (5) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak; (6) The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown; (7) The expected date of successful repair of the leak if a leak is not repaired within 15 days; (8) Dates of process unit shutdowns that occur while the equipment is unrepaired; (9) The date of successful repair of the leak. [40 CFR 60.486(c)] Federally Enforceable Through Title V Permit

137. The following information pertaining to the design requirements for closed vent systems and control devices described in §60.482-10 shall be recorded and kept in a readily accessible location: (1) Detailed schematics, design specifications, and piping and instrumentation diagrams; (2) The dates and descriptions of any changes in the design specifications; (3) A description of the parameter or parameters monitored, as required in §60.482-10(e), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring; (4) Periods when the closed vent systems and control devices required in §60.482-2, §60.482-3, §60.482-4, and §60.482-5 are not operated as designed, including periods when a flare pilot light does not have a flame; and (5) Dates of startups and shutdowns of the closed vent systems and control devices required in §60.482-2, §60.482-3, §60.482-4, and §60.482-5. [40 CFR 60.486(d)] Federally Enforceable Through Title V Permit

138. The following information pertaining to all equipment subject to the requirements in §60.482-1 to §60.482-10 shall be recorded in a log that is kept in a readily accessible location: (1) A list of identification numbers for equipment subject to the requirements of this subpart; (2) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of §60.482-2(e), §60.482-3(i) and §60.482-7(f) and the designation of equipment as subject to the requirements of §60.482-2(e), §60.482-3(i), or §60.482-7(f) shall be signed by the owner or operator. Alternatively, the owner or operator may establish a mechanism with their permitting authority that satisfies this requirement; (3) A list of equipment identification numbers for pressure relief devices required to comply with §60.482-4; (4) The dates of each compliance test as required in §60.482-2(e), §60.482-3(i), §60.482-4, and §60.482-7(f), the background level measured during each compliance test, and the maximum instrument reading measured at the equipment during each compliance test; (5) A list of identification numbers for equipment in vacuum service; (6) A list of identification numbers for equipment that the owner or operator designates as operating in VOC service less than 300 hr/yr in accordance with §60.482-1(e), a description of the conditions under which the equipment is in VOC service, and rationale supporting the designation that it is in VOC service less than 300 hr/yr. [40 CFR 60.486(e)] Federally Enforceable Through Title V Permit

139. The following information pertaining to all valves subject to the requirements of §60.482-7(g) and (h) and to all pumps subject to the requirements of §60.482-2(g) shall be recorded in a log that is kept in a readily accessible location: (1) A list of identification numbers for valves and pumps that are designated as unsafe-to-monitor, an explanation for each valve or pump stating why the valve or pump is unsafe-to-monitor, and the plan for monitoring each valve or pump; (2) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve. [40 CFR 60.486(f)] Federally Enforceable Through Title V Permit

140. The following information shall be recorded for valves complying with §60.483-2: (1) A schedule of monitoring. (2) The percent of valves found leaking during each monitoring period. [40 CFR 60.486(g)] Federally Enforceable Through Title V Permit

141. The following information shall be recorded in a log that is kept in a readily accessible location: (1) Design criterion required in §60.482-2(d)(5) and §60.482-3(e)(2) and explanation of the design criterion; and (2) Any changes to this criterion and the reasons for the changes. [40 CFR 60.486(h)] Federally Enforceable Through Title V Permit

142. Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location. [40 CFR 60.486(j)] Federally Enforceable Through Title V Permit

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143. All semiannual reports to the District shall include the following information: (1) Process unit identification. (2) For each month during the semiannual reporting period, number of valves for which leaks were detected as described in §60.482-7(b) or §60.483-2, number of valves for which leaks were not repaired as required in §60.482-7(d)(1), number of pumps for which leaks were detected as described in §60.482-2(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii), number of pumps for which leaks were not repaired as required in §60.482-2(c)(1) and (d)(6), number of compressors for which leaks were detected as described in §60.482-3(f), number of compressors for which leaks were not repaired as required in §60.482-3(g)(1), and the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible. (3) Dates of process unit shutdowns which occurred within the semiannual reporting period. (4) Revisions to items reported according to paragraph (b) if changes have occurred since the initial report or subsequent revisions to the initial report. [40 CFR 60.487(c)] Federally Enforceable Through Title V Permit

144. An owner or operator electing to comply with the provisions of §60.483-1 or §60.483-2 shall notify the District of the alternative standard selected 90 days before implementing either of the provisions. [40 CFR 60.487(d)] Federally Enforceable Through Title V Permit

145. An owner or operator shall report the results of all performance tests in accordance with §60.8 of the General Provisions. The provisions of §60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the District of the schedule for the initial performance tests at least 30 days before the initial performance tests. [40 CFR 60.487(e)] Federally Enforceable Through Title V Permit

146. The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of paragraphs (a) through (c) of this section, provided that they comply with the requirements established by the State. [40 CFR 60.487(f)] Federally Enforceable Through Title V Permit

147. Each drain, receiving refinery wastewater from a process unit, shall be equipped with water seal controls. [40 CFR 60.692-2(a)(1)] Federally Enforceable Through Title V Permit

148. Each drain in active service, receiving refinery wastewater from a process unit, shall be checked by visual or physical inspection initially and monthly thereafter for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. [40 CFR 60.692-2(a)(2)] Federally Enforceable Through Title V Permit

149. Each drain out of active service shall be checked by visual or physical inspection initially and weekly thereafter for indications of low water levels or other problems that could result in VOC emissions. As an alternative, the owner or operator may elect to install a tightly sealed cap or plug over a drain that is out of service, inspection shall be conducted initially and semiannually to ensure caps or plugs are in place and properly installed. Whenever low water levels or missing or improperly installed caps or plugs are identified, water shall be added or first efforts at repair shall be made as soon as practicable, but not later than 24 hours after detection, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown [40 CFR 60.692-2(a) and 60.692-6] Federally Enforceable Through Title V Permit

150. Junction boxes in refinery wastewater systems shall be equipped with a cover and may have an open vent pipe. The vent pipe shall be at least 90 cm (3 ft) in length and shall not exceed 10.2 cm (4 in) in diameter. Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance. [40 CFR 60.692-2(b)(1)] Federally Enforceable Through Title V Permit

151. Junction boxes in refinery wastewater systems shall be visually inspected initially and semiannually thereafter to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge. If a broken seal or gap is identified, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown. [40 CFR 60.692-2(b)(3)(4) and 60.692-6] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

152. Sewer lines, conveying refinery wastewater to wastewater treatment system, shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. [40 CFR 60.692-2(c)(1)] Federally Enforceable Through Title V Permit

153. The portion of each unburied sewer line shall be visually inspected initially and semiannually thereafter for indication of cracks, gaps, or other problems that could result in VOC emissions. Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown. [40 CFR 60.692-2(c)(2)(3) and 60.692-6] Federally Enforceable Through Title V Permit

154. Refinery wastewater routed through new process drains and a new first common downstream junction box, either as part of a new individual drain system or an existing individual drain system, shall not be routed through a downstream catch basin. [40 CFR 60.692-2(e)] Federally Enforceable Through Title V Permit

155. Operators shall not depressurize any vessel containing VOCs unless the process unit turnaround is accomplished by employing one of the following operating procedures: The organic vapors shall either be recovered, added to the refinery fuel gas system and combusted; or controlled and piped to an appropriate firebox or incinerated for combustion; or flared, until the pressure within the process vessel is as close to atmospheric pressure as is possible. All process vessels shall be depressurized into the control facilities to less than 1020 mm Hg (5 psig) before venting/opening to atmosphere. All organic compounds which emerge from a refinery process vessel during the purging of said vessel and which otherwise would be emitted to the atmosphere shall be either directed to a flare or incinerator or shall be used for fuel until such disposition of emissions is not technically feasible or is less safe than atmospheric venting. [District Rule 4454, 4.0] Federally Enforceable Through Title V Permit

156. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit

157. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0] Federally Enforceable Through Title V Permit

158. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit

159. The owner or operator shall maintain records of fluids used in each process in the facility. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

160. The owner or operator shall maintain records of the source of the crude oil received by the facility. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

161. On December 31, 2012, the initial Title V permit was renewed. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days of the end of each reporting period. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-1-19 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT 61 MMBTU/HR CRUDE FRACTIONATION PLANT INCLUDING LIQUID RING STAGED VACUUM PUMP WITH SEPARATOR, FLAME ARRESTOR, EMERGENCY VENT STACK, GAS/LIQUID SEPARATOR, THREE VACUUM VESSELS, ONE ATMOSPHERIC VESSEL, AND FOUR HEATERS

PERMIT UNIT REQUIREMENTS

1. The fuel supply lines shall be physically disconnected from Heaters A, B, C, and D. [District Rule 4306] Federally Enforceable Through Title V Permit
2. Heaters A, B, C, and D shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4306 and all other applicable District regulations. [District Rule 4306] Federally Enforceable Through Title V Permit
3. Crude fractionation plant shall include Corona Cel liquid ring staged vacuum pump with separator, flame arrestor, emergency vent stack, gas/liquid separator, and three vacuum vessels and one atmospheric vessel. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no detectable volatile organic compound (VOC) emissions from valves and flanges or from pressure relief valves during normal operation. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Crude oil throughput for S-44-1 and S-44-4 combined shall not exceed 12,800 barrels per day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Heater A shall operate as a replacement standby unit and shall not exceed a total heat input of 90 billion Btu/yr. [District Rule 4305] Federally Enforceable Through Title V Permit
7. Heater A shall be tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304. [District Rule 4305] Federally Enforceable Through Title V Permit
8. Refinery produced fuel gas shall be treated in H2S scrubber listed in S-44-13. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Gas-fired emission rates from heaters shall not exceed any of the following: NOx - 0.036 lb/MMBtu, CO - 0.0840, VOC - 0.0055, PM10 - 0.0076, or SOx - 0.0143 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Oil-fired emission rates from heaters shall not exceed any of the following: NOx - 0.052 lb/MMBtu, CO - 0.0365, VOC - 0.0015, PM10 - 0.0241, or SOx - 0.0518 lb/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. The stack concentration of NOx (as NO2), CO, and O2, from heaters A, B, C, and D, shall be measured at least on a monthly basis, when operating, using District approved portable analyzers. [District Rule 4305] Federally Enforceable Through Title V Permit

14. Sampling facilities for source testing shall be provided for heaters A, B, C, and D in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit

15. Source testing to measure NOx and CO emissions shall be conducted for heaters A, B, C, and D not less than once every 12 months, except as provided below. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

16. Source testing to measure NOx and CO emissions shall be conducted for heaters A, B, C, and D, not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

17. If permittee fails any compliance demonstration for NOx or CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

18. Source testing shall be performed to demonstrate compliance with NOx and CO emission limits within 60 days of introducing fuel for which the unit has not been source tested on in the previous 12 months. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

19. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NOx and CO source testing requirement. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit

20. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit

21. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

22. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

23. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351] Federally Enforceable Through Title V Permit

24. If the NOx or CO concentrations for heaters A, B, C or D, as measured by the portable analyzer, exceed the allowable emission rate, the permittee shall notify the District and take corrective action as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 4305] Federally Enforceable Through Title V Permit

25. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 2520, 9.4.2, and 4305] Federally Enforceable Through Title V Permit

26. Permittee shall maintain accurate records of fuel type, heating value of fuel, fuel consumption, daily crude oil throughput, annual operating hours & heat input per heater, annual emissions for the heaters, and dates of tuning. [District NSR Rule] Federally Enforceable Through Title V Permit

27. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

28. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

29. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

30. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 19,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

31. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

32. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

33. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

34. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

35. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

36. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

37. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

38. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

39. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 4305, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

40. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

41. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

42. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

43. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx and CO emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 4305, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit

44. The following conditions must be met for representative unit(s) to be used to test for NOx and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

45. All units in a group for which representative units are source for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

46. All units in a group for which representative units are source tested to for NOx and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

47. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-2-26 **EXPIRATION DATE:** 08/31/2016

SECTION: 06 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
SOLVENT EXTRACTION PLANT INCLUDING AIR STRIPPER, TWO ROTATING DISC COLUMNS, AND 40 MMBTU/HR SOLVENT PLANT VERTICAL CYLINDRICAL TYPE HOT OIL HEATER WITH A ZEECO MODEL GLSF-16 LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Solvent plant vertical cylindrical-type heater fuel gas use (not including pilot gas and waste gas) shall not exceed 36,800 scf/hr on a daily average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The heater unit shall be fired exclusively on PUC-quality natural gas and waste gas/refinery produced fuel gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. Maximum heat input of waste gas/refinery produced fuel gas waste gas to solvent plant heater, calculated as product of flow rate (scf/day) and higher heating value (MMBtu/scf), shall not exceed 72 MMBtu/day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Waste gas/refinery produced fuel gas may be combusted in the solvent plant heater by the pilot gas flame at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Waste gas/refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Refinery produced gas shall be treated in H2S scrubber listed in S-44-13. [District Rule 2201] Federally Enforceable Through Title V Permit
8. H2S content of gas burned shall not exceed 0.1 gr/dscf (161 ppmv) based on a three hour rolling average. [40 CFR 60.104(a)(1)] Federally Enforceable Through Title V Permit
9. Solvent plant heater emission rates shall not exceed any of the following: NOx - 30 ppmv @ 3% O2 or 0.036 lb/MMBtu, CO - 400 ppmv @ 3% O2, VOC - 5.5 lb/MMscf of fuel gas, PM10 - 7.6 lb/MMscf of fuel gas, or SOx - 5 gr of total sulfur per 100 standard cubic feet of fuel gas. [District Rules 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
10. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
16. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
17. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
18. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
19. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
20. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
23. Permittee shall maintain accurate records of fuel type and heating value, daily and annual fuel consumption, and annual emissions from heaters. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

25. Permittee shall maintain records of the occurrence of and duration of any startup, shutdown, or malfunction in the operation of the solvent plant heater, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

26. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(Last Amended December 19,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

28. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

29. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

30. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 4305, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit

32. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

33. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

34. The owner or operator shall install an instrument for continuously monitoring and recording the concentration (dry basis) of H2S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H2S. The performance evaluations for this H2S monitor shall use Performance Specification 7. Method 11 shall be used for conducting the relative accuracy evaluations. [40 CFR Part 60, Subpart J, 60.105(a)(4)(i)(iii)] Federally Enforceable Through Title V Permit

35. Continuous emissions monitoring (CEM) results shall be calculated on a rolling three (3) hour average. [40 CFR 60.105(e)] Federally Enforceable Through Title V Permit

36. The owner or operator shall report all rolling 3-hour periods during which the average concentration of H2S as measured by the H2S continuous monitoring system exceeds 0.10 gr/dscf (230 mg/dscm or 161 ppmv). [40 CFR 60.105(e)(3)(ii)] Federally Enforceable Through Title V Permit

37. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

38. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

39. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

40. The permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-3-21 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT LUBE OIL FINISHING PLANT INCLUDING 6 MMBTU/HR CHARGE VERTICAL CYLINDRICAL HEATER, TWO HYDROGEN REACTORS, TWO COMPRESSORS, SEPARATORS, FLASH POT, AMINE TREATER WITH RECEIVER AND REGENERATOR, H2S PRODUCT STRIPPER (3-D-51), STRIPPER ACCUMULATOR, UTILITY FRACTIONATOR COLUMN (D-11) (SHARED WITH S-44-4), AND H2S SCRUBBER AND FLARE SERVING HYDROGEN RICH WASTE GAS STREAM

PERMIT UNIT REQUIREMENTS

1. The fuel supply line shall be physically disconnected from the 5 MMBtu/hr vertical cylindrical heater [District Rule 4307]
2. The 5 MMBtu/hr vertical cylindrical heater shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4307 and all other applicable District regulations. [District Rule 4307]
3. In the natural gas line to the charge heater, the permittee shall permanently install a calibrated orifice plate having a diameter not exceeding 0.3501 inches. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The diameter of natural gas fuel line orifice shall be permanently stamped on the orifice plate and shall be readily accessible and viewable by District inspection staff. A copy of the orifice sizing calculations shall be made available to District inspection staff upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The charge heater shall be fired solely on PUC regulated natural gas or fuel oil. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Simultaneous firing of natural gas and fuel oil in the charge heater is prohibited. [District NSR Rule] Federally Enforceable Through Title V Permit
7. In the fuel oil line to the charge heater, the permittee shall permanently install a calibrated orifice plate having a diameter not exceeding 0.0581 inches. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The diameter of the fuel oil line orifice shall be permanently stamped on the orifice plate and shall be readily accessible and viewable by District inspection staff. A copy of the orifice sizing calculations shall be made available to District inspection staff upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
9. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
10. H2S product stripper column includes vapor piping to H2S scrubber and flare serving hydrogen rich waste gas stream and to refinery waste gas system listed in S-44-13, and liquid piping to tank S-44-157. [District NSR Rule] Federally Enforceable Through Title V Permit
11. There shall be no detectable volatile organic compound (VOC) emissions from valves and flanges or from pressure relief valves during normal operation. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Hydrogen reactors may be used in parallel configuration (one at a time) or in series configuration (concurrently). [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Hydrogen rich waste gas stream shall be equipped with continuously recording flowrate meter. [District NSR Rule] Federally Enforceable Through Title V Permit

14. H2S scrubber serving hydrogen rich waste gas shall be equipped with continuous operation H2S monitor on outlet of H2S scrubber. [District Rule 4801] Federally Enforceable Through Title V Permit

15. Excess sour gas from flash pot, stripper accumulator and amine regenerator shall discharge only to hydrogen rich waste gas stream H2S scrubber. [District NSR Rule] Federally Enforceable Through Title V Permit

16. VOC emissions from fugitive components associated with H2S product stripper column shall not exceed 1.0 lb/day. VOC emissions from fugitive components installed after April 2000 on utility fractionator column shall not exceed 1.7 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit

17. Fugitive emission calculations shall be performed using API Publication 4322 for emission factors and control efficiencies for inspection and maintenance program established in EPA Publication 450/3-83-007. [District NSR Rule] Federally Enforceable Through Title V Permit

18. Hydrogen rich waste gas flowrate to H2S scrubber and flare shall not exceed 50,400 dscf/day. Flowrate (dscf/day) may be calculated using wet gas mass flowrate measurement corrected for water content. [District NSR Rule] Federally Enforceable Through Title V Permit

19. Refinery produced fuel gas, except hydrogen rich waste gas stream, shall be treated in H2S scrubber listed in S-44-13 and burned in boiler S-44-13 or solvent plant heater S-44-2. [District NSR Rule] Federally Enforceable Through Title V Permit

20. Charge heater gas-fired emission rates shall not exceed any of the following limits: 0.1000 lb-NOx/MMBtu, 0.0840 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 lb-PM10/MMBtu, or 0.0143 lb-SOx /MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit

21. Charge heater oil-fired emission rates shall not exceed any of the following limits: 0.1460 lb-NOx/MMBtu, 0.0365 lb-CO/MMBtu, 0.0015 lb-VOC/MMBtu, 0.0241 lb-PM10/MMBtu, or 0.0518 lb-SOx/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit

22. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit

23. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas and fuel oil combusted in the unit shall be installed, utilized and maintained. [District NSR Rule] Federally Enforceable Through Title V Permit

24. Permittee shall maintain accurate records of hydrogen rich waste gas (off gas) produced (dscf/day), charge heater fuel type, daily and annual charge heater fuel consumption, and annual emissions from charge heater. [District NSR Rule] Federally Enforceable Through Title V Permit

25. Permittee shall maintain annual records of fugitive component count and corresponding emission calculations for components installed in conjunction with the H2S product stripper column and components installed after April 2000 for the utility fractionator. [District NSR Rule] Federally Enforceable Through Title V Permit

26. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

28. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

29. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-4-21 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT 4.5 MMBTU/HR LUBE OIL FINISHING PLANT - UTILITY FRACTIONATOR INCLUDING THREE ATMOSPHERIC COLUMN NOS. D-11, D-21, & D-31, STANDBY HEATER NOS. 11, 21, & 31, AND HEAT OIL EXCHANGER NOS. E 551, E-552, & E-553

PERMIT UNIT REQUIREMENTS

1. The fuel supply line shall be physically disconnected from heaters #11, #21, and #31 while dormant. [District Rules 2201, 4306, 4307] Federally Enforceable Through Title V Permit
2. Heaters #11, #21, and #31 shall not be operated for any reason until Authority to Construct permits are issued approving all necessary retrofits required to comply with the applicable requirements of either Rule 4306 or 4307 and all other applicable District regulations. [District Rules 4306, 4307] Federally Enforceable Through Title V Permit
3. In the fuel line to standby heater #21, the permittee shall permanently install a calibrated orifice plate having a diameter not exceeding 0.3501 inches. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The diameter of the orifice shall be permanently stamped on the orifice plate of standby heater #21, and shall be readily accessible and viewable by District inspection staff. A copy of the orifice sizing calculations shall be made available to District inspection staff upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The standby heaters shall be fired solely on PUC regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
6. No modifications to heaters #11 and #31 shall be performed without an Authority to Construct for that modification, except for changes specified in the following condition. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Heaters #11 and #31 shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4306 and all other applicable District regulations. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Refinery produced fuel gas shall be treated in H2S scrubber listed in S-44-13. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Heaters #11, #21, and #31 shall not be fired at greater than 4.5 MMBTU/hr for all three heaters. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Crude oil throughput for S-44-1 and S-44-4 combined shall not exceed 12,800 barrels per day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Emissions from any of the standby heaters (#11, 21, 31) shall not exceed any of the following limits: 0.10 lb-NOx/MMBtu, 0.084 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 PM10/MMBtu, or 0.00285 lb-SOx/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Upon resuming operation of heater #21, the heater shall be tuned at least twice per calendar year (from four to eight months apart) by a qualified technician in accordance with the procedure described in Rule 4304. If the unit does not operate during a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. If the unit does not operate during a calendar year, no tune-up is required for that calendar year. [District Rule 4307] Federally Enforceable Through Title V Permit
15. Upon resuming operation of heater #21, the heater may be test-fired to verify availability for its intended use. Such test-firing is not considered operation for the purpose of requiring a tune-up provided the heater is shutdown once test firing is complete. [District Rule 4307] Federally Enforceable Through Title V Permit
16. Upon resuming operation of heaters #11 and #31, the stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rule 4305] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of District Rule 1081 (amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
18. Upon resuming operation of heaters #11 and #31, source testing to measure NOx and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
19. Upon resuming operation of heaters #11 and #31, source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
20. Upon resuming operation of heaters #11 and #31, if permittee fails any compliance demonstration for NOx or CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
21. Upon resuming operation of heaters #11 and #31, source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NOx and CO source testing requirement. [District Rules 4305, and 4351] Federally Enforceable Through Title V Permit
22. Upon resuming operation of heaters #11 and #31, compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
23. Upon resuming operation of heaters #11 and #31, source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
24. Upon resuming operation of heaters #11 and #31, the results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
25. Upon resuming operation of heaters #11 and #31, the following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

26. Upon resuming operation of heaters #11 and #31, if the NOx or CO concentrations, as measured by the portable analyzer, exceed the allowable emission rate, the permittee shall notify the District and take corrective action as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 2520, 9.3.2 and 4305] Federally Enforceable Through Title V Permit

27. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 2520, 9.4.2 and 4305] Federally Enforceable Through Title V Permit

28. Permittee shall maintain accurate records of fuel type, annual fuel consumption, annual emissions from the heaters, and daily crude oil throughput. [District Rule 2201] Federally Enforceable Through Title V Permit

29. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

30. Upon resuming operation of heaters #11 and #31, the portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

32. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type of fuel combusted. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

33. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

34. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by maintaining copies of fuel invoices, gas purchase contracts, or supplier certifications. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

35. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). Compliance with this requirement may be demonstrated by maintaining copies of fuel invoices, gas purchase contracts, or supplier certifications. [District Rule 4801] Federally Enforceable Through Title V Permit

36. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

37. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

38. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

39. Upon resuming operation of heaters #11 and #31, annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx and CO emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 4305, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

40. Upon resuming operation of heaters #11 and #31, the following conditions must be met for representative unit(s) to be used to test for NOx and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

41. Upon resuming operation of heaters #11 and #31, all units in a group for which representative units are source for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

42. Upon resuming operation of heaters #11 and #31, all units in a group for which representative units are source tested to for NOx and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rule 4305, 6.3.2] Federally Enforceable Through Title V Permit

43. Upon resuming operation of heaters #11 and #31, the number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-5-14 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 27E

EQUIPMENT DESCRIPTION:
99.9 MMBTU/HR NATURAL GAS-FIRED ZURN MODEL 15M KEYSTONE BOILER WITH COEN STAGED AIR BURNER AND FLUE GAS RECIRCULATION

PERMIT UNIT REQUIREMENTS

1. Burner shall be fired exclusively on PUC-regulated natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Gas-firing rate shall not exceed 94,612 scf per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Emission rates shall not exceed any of the following: NOx (as NO2): 25 ppmv @3% O2 or 0.031 lb/MMBtu, CO: 400 ppmv @ 3% O2 or 0.30 lb/MMBtu. [District Rules 4305, 5.1.1, 4306, 5.1.1 and 4351] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed any of the following: 0.0056 lb-VOC/MMBtu, 0.0076 lb-PM10/MMBtu, or 0.0006 lb-SOx/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
7. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
8. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
9. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
10. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
11. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
17. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
18. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
20. Permittee shall maintain accurate records of fuel type, daily fuel consumption, annual fuel consumption and annual emissions from the boiler, and shall make such records available for District inspection for five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
21. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
23. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

25. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

26. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

27. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

28. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

29. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

30. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 4305 and 4306, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit

31. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

32. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rules 4305 and 4306, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

33. Nitrogen oxide (NOx) emissions shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

34. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

35. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx and CO emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305 and 4306, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit

36. The following conditions must be met for representative unit(s) to be used to test for NOx and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit

37. All units in a group for which representative units are source for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit

38. All units in a group for which representative units are source tested to for NOx and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit

39. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

40. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

41. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

42. The permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-6-14 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
DORMANT 65 MMBTU/HR SHIPPING & RECEIVING OPERATION INCLUDING 45 MMBTU/HR ASPHALT SHIPPING FORCED DRAFT HEATER AND 20 MMBTU/HR CIRCULATING (RETORT) NATURAL DRAFT VERTICAL CYLINDRICAL HEATER

PERMIT UNIT REQUIREMENTS

1. The fuel supply line of the 45 MMBtu/hr asphalt shipping heater shall be physically disconnected from this unit. [District Rule 4306] Federally Enforceable Through Title V Permit
2. This 45 MMBtu/hr asphalt shipping heater shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4306 and all other applicable District regulations. [District Rule 4306] Federally Enforceable Through Title V Permit
3. If continuous operation oxygen analyzer/controller is utilized, excess O2 shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Asphalt shipping heater (forced draft) shall be fired on oil or natural gas. Retort heater (natural draft) shall be fired on natural gas. Neither heater shall incinerate refinery produced gas. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Asphalt shipping heater and retort heater shall each be equipped with recording fuel flow meter. [District Rule 4305 and 4351] Federally Enforceable Through Title V Permit
6. Asphalt shipping heater shall operate as a replacement standby unit and shall not be fired for more than 90 billion Btu/year. [District Rule 4305] Federally Enforceable Through Title V Permit
7. Asphalt shipping heater shall only fire on oil during periods of involuntary natural gas curtailment. Heater shall not be fired on oil for more than 336 hours per year, except for 48 hours per year for maintenance and testing. [District Rule 4351] Federally Enforceable Through Title V Permit
8. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Gas fired emission rate from 45 MMBtu/hr forced draft asphalt shipping heater shall not exceed: NOx, 95 ppmv @3% O2 or 0.10 lb/MMBtu, and CO, 400 ppmv @3% O2. [District Rule 4351] Federally Enforceable Through Title V Permit
10. Gas fired emission rate from 20 MMBtu/hr natural draft retort heater shall not exceed: NOx, 147 ppmv @3% O2 or 0.18 lb/MMBtu, and CO, 400 ppmv @3% O2. [District Rule 4305 and 4351] Federally Enforceable Through Title V Permit
11. The retort heater stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rule 4305] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Source testing of retort heater to measure NOx and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rule 4351] Federally Enforceable Through Title V Permit
13. Source testing of the retort heater to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rule 4351] Federally Enforceable Through Title V Permit
14. If permittee fails any compliance demonstration for NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits for the retort heater shall be demonstrated not less than once every 12 months. [District Rule 4351] Federally Enforceable Through Title V Permit
15. Source testing shall be performed to demonstrate compliance with NOx and CO emission limits within 60 days of introducing fuel for which the unit has not been source tested on in the previous 12 months. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351] Federally Enforceable Through Title V Permit
19. If the retort heater NOx or CO concentrations, as measured by the portable analyzer, exceed the allowable emission rate, the permittee shall notify the District and take corrective action as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 4305] Federally Enforceable Through Title V Permit
20. The permittee shall maintain records of the date and time of retort heater NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 2520, 9.4.2 and 4305] Federally Enforceable Through Title V Permit
21. Asphalt heater and heater A shall be either tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304, or operated with exhaust oxygen concentration no greater than 3.00% by volume on a dry basis. [District Rule 4305] Federally Enforceable Through Title V Permit
22. Asphalt heater shall be operated in accordance with the manufacturer's recommendations. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
23. Permittee shall maintain records of monthly and annual fuel consumption for each heater, and annual emissions from heaters. [District NSR Rule, 4305, and 4351] Federally Enforceable Through Title V Permit
24. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

27. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

28. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

29. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

30. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

31. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

32. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

33. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

34. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

35. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

36. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

37. Nitrogen oxide (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

39. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-7-4 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
VORTOIL, MODEL H50-GO-ICR, HORIZONTAL HYDRO-CYCLONE OIL/WATER SEPARATOR.

PERMIT UNIT REQUIREMENTS

1. Throughput rate of wastewater shall not exceed 10,000 Bbl per day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. VOC emissions from Vortoil Hydro-Cyclone Separator shall not exceed 84.0 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging and sampling device in the compartment cover shall be equipped with a cover or lid. The cover shall be in a closed position at all times, except when the device is in actual use. [District Rule 4625] Federally Enforceable Through Title V Permit
4. Oil/water separator shall be maintained in a manner preventing the emission of noxious odors. [District Rule 4102]
5. Wet oil recovered from tank #'s 3501 and 3502 (S-44-133 & '134) shall be routed either to tank #2009 (S-44-79) and/or #2059 (S-44-37) for drying. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Dried oil from tanks 2009 & 2059 shall either be blended into SC asphalt and/or light fuel oil, or dried oil shall be routed to tank #3003 (S-44-94) for mixing with float from dissolved air flotation unit and charged to vacuum plant. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Permittee shall maintain accurate daily records of wastewater throughput and make such records readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-8-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-9-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-10-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10003

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-11-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10004

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-12-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
2,284,128 GALLON FIXED ROOF PETROLEUM STORAGE TANK #54001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-13-24 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
100 MMBTU/HR CLEAVER BROOKS BOILER INCLUDING JOHN ZINK LOW NOX BURNER, H2S CAUSTIC SCRUBBER, CONTINUOUS H2S MONITOR, & BACKUP H2S REMOVAL SYSTEM WITH "SULFATREAT" ADSORBENT VERTICAL COLUMN FUEL GAS SCRUBBER WITH NOMINAL DIMENSIONS 18' LONG BY 4' DIAMETER

PERMIT UNIT REQUIREMENTS

1. The fuel supply line shall be physically disconnected from this unit when dormant. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
2. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
3. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
4. H2S removal system includes two H2S scrubbers, waste gas knockout pot, fresh and spent caustic storage tanks, and various liquid pumps. [District NSR Rule] Federally Enforceable Through Title V Permit
5. H2S content of refinery fuel gas burned shall not exceed 0.1 gr/dscf (161 ppmv) based on a three hour rolling average. [40 CFR 60.104(a)(1)] Federally Enforceable Through Title V Permit
6. Refinery produced fuel gas burned shall be from crude fractionation plant S-44-1, solvent extraction plant S-44-2, lube oil hydrotreater S-44-3 (except hydrogen stream), and lube oil fractionator S-44-4. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Refinery produced fuel gas shall be burned in C.B. boiler S-44-13 and/or solvent plant heater S-44-2. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Emission rates shall not exceed NOx (as NO2): 25 ppmvd @3% O2 or 0.03 lb/MMBtu, and CO: 400 ppmvd @ 3% O2. [District Rules 4301, 4305, 4306 and 4351] Federally Enforceable Through Title V Permit
9. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the following: CO - 154.66 tpy, VOC - 7.39 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
12. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
15. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
16. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
19. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
20. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
21. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
22. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

23. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 4305, 6.2.1; 4306, 6.2.1, and 4351, 6.2.1] Federally Enforceable Through Title V Permit

24. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit

25. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

26. Permittee shall maintain accurate records of fuel type, fuel consumption, boiler feedwater/produced steam rate, and annual emissions from the boiler, and shall make such records available for District inspection for five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit

27. Permittee shall maintain records of the occurrence of and duration of any startup, shutdown, or malfunction in the operation of the C.B. boiler, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

28. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

29. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

30. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit

31. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

32. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

33. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO2. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

34. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

35. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

36. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

37. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit

38. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

39. The owner or operator shall install an instrument for continuously monitoring and recording the concentration (dry basis) of H2S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H2S. The performance evaluations for this H2S monitor shall use Performance Specification 7. Method 11 shall be used for conducting the relative accuracy evaluations. [40 CFR Part 60, Subpart J, 60.105(a)(4)(i)(iii)] Federally Enforceable Through Title V Permit

40. Continuous emissions monitoring (CEM) results shall be calculated on a rolling three (3) hour average. [40 CFR 60.105(e)] Federally Enforceable Through Title V Permit

41. The owner or operator shall report all rolling 3-hour periods during which the average concentration of H2S as measured by the H2S continuous monitoring system exceeds 0.10 gr/dscf (230 mg/dscm or 161 ppmv). [40 CFR 60.105(e)(3)(ii)] Federally Enforceable Through Title V Permit

42. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

43. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-14-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
71 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 30 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Operation of the engine, for other than maintenance and testing purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter (PM-10) emission rate shall not exceed 0.16 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Sulfur compound emission rate shall not exceed 0.06 lb/hr as SO2. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Nitrogen oxide emission rate shall not exceed 1.87 lb/hr as NO2. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Volatile organic compound (VOC) emission rate shall not exceed 0.04 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Carbon monoxide (CO) emission rate shall not exceed 1.21 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be operated using only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight. [17 CCR 93115 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

16. Effective May 3, 2013, The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63.6603(a)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-15-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
91 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 50 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Operation of the engine, for other than maintenance and testing purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter (PM-10) emission rate shall not exceed 0.20 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Sulfur compound emission rate shall not exceed 0.08 lb/hr as SO2. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Nitrogen oxide emission rate shall not exceed 1.98 lb/hr as NO2. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Carbon monoxide (CO) emission rate shall not exceed 0.99 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be operated using only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight. [17 CCR 93115 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

16. Effective May 3, 2013, The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63.6603(a)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-16-4 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ASPHALT/POLYMER BLENDING OPERATION W/ 544 BBL MIX TANK #501 AND 880 BBL STORAGE TANK #1062 VENTING TO LEAN OIL ABSORBER COLUMN AND CARBON CANISTER, AND TRUCK LOADOUT

PERMIT UNIT REQUIREMENTS

1. Total quantity of asphalt loaded out from this operation shall not exceed 294,000 gal/day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Liquid storage temperature shall not exceed 450 degrees F. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Tanks #501 and #1062 shall only vent to lean oil absorber column and carbon canister. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Carbon canister inlet and outlet VOC concentration (ppmv) shall be monitored weekly when in use with a portable hydrocarbon detector and/or gas chromatograph analysis of grab samples to determine breakthrough. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Vapor control system consisting of lean oil absorber column and carbon canister shall operate at least at 99.99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Tank and all appurtenances and all associated piping, valves and fittings shall be maintained gas-tight (as defined in Rule 4623) at all times, except for hatches, sampling valves and other such devices during periods of gauging, sampling, and inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Permittee shall maintain accurate daily records of throughput and temperature of stored liquids in each tank for a period of five years and shall make such records readily available for District inspection upon request. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records of weekly monitoring of carbon canister outlet for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 2520, 9.3.2, 9.4.2] Federally Enforceable Through Title V Permit
9. The portable hydrocarbon detector shall be calibrated prior to each use with a two-point calibration method (zero and span). Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-17-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-18-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-19-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #802

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-20-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF STORAGE TANK (TANK #804)

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-21-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #805

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-22-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #806

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-25-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-26-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-27-3 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-28-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-29-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
453,096 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10023

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-30-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-31-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-34-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,298 GALLON FIXED ROOF PETROLEUM STORAGE TANK #283

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-35-4 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
TRUCK AND RAILCAR LOADOUT OPERATION INCLUDING RACK NOS. 1A (6 SPOUTS), A (4 SPOUTS), B (4 SPOUTS), C (4 SPOUTS), D (4 SPOUTS), E (4 SPOUTS), & F (6 SPOUTS) AND PUMPS

PERMIT UNIT REQUIREMENTS

1. Loading rack B includes Monsanto asphalt vent package. [District NSR Rule] Federally Enforceable Through Title V Permit
2. When loading air blown asphalt, truck loading rack B vapor piping shall vent to Monsanto asphalt vent package. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. True vapor pressure of any organic liquid being loaded shall be less than 1.5 psia at actual loading temperature. [District Rule 4624, 4.0 and Kern County Rule 413] Federally Enforceable Through Title V Permit
5. The operator shall maintain accurate daily records of liquid throughput, loading rack number, loading temperature, and liquid TVP to verify continued exemption from District Rule 4624 (Amended December 17, 1992) [District Rule 4624, 6.1 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4624, 6.2.3 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-36-2 **EXPIRATION DATE:** 08/31/2016

SECTION: SE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
252,546 GALLON WASTEWATER STORAGE TANK #6001

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of stored liquid shall not exceed 0.0 psia at storage conditions. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Volatile organic compound (VOC) emission rate shall not exceed 0 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The operator shall keep accurate records of types and TVP of liquids stored. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-37-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
84,882 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2059

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-41-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 7 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-42-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 7 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-44-2

EXPIRATION DATE: 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
325 HP COOLING TOWER #1 INCLUDING THREE PUMPS AND ONE FAN

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit
2. Hexavalent chromium concentration levels in circulating water shall not exceed 0.15 mg/l. [District Rule 7012] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grain/dscf of gas at operating conditions. [District Rule 4201,3.1] Federally Enforceable Through Title V Permit
4. The operator shall make a record containing information including the Material Safety Data Sheets (MSDS) of all chemicals used or added to the cooling tower circulating water. The records shall be kept and maintained for a period of at least five years, and made available for district inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-45-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
450 HP COOLING TOWER #2 INCLUDING FOUR PUMPS AND TWO FANS

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit
2. Hexavalent chromium concentration levels in circulating water shall not exceed 0.15 mg/l. [District Rule 7012] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grain/dscf of gas at operating conditions. [District Rule 4201,3.1] Federally Enforceable Through Title V Permit
4. The operator shall make a record containing information including the Material Safety Data Sheets (MSDS) of all chemicals used or added to the cooling tower circulating water. The records shall be kept and maintained for a period of at least five years, and made available for district inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-46-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ONE 1,600 GALLON STORAGE TANK #24-1 GASOLINE STORAGE TANK (PHASE I AND PHASE II EXEMPT)

PERMIT UNIT REQUIREMENTS

1. Gasoline tank shall be equipped with permanently affixed fill tube terminating no more than 6 inches from bottom of tank. [District Rule 4621, 4.1.2] Federally Enforceable Through Title V Permit
2. The gasoline throughput of this tank shall not exceed 24,000 gallons/year and 10,000 gallons per any consecutive 30-day period. [District Rule 4622, 4.1] Federally Enforceable Through Title V Permit
3. A log of gasoline throughput shall be kept, maintained, and made available for District inspection upon request. This log shall include all necessary information to determine the the total gasoline throughput during any consecutive 30-day period and the annual gasoline throughput. [District Rule 4622, 6.1.1] Federally Enforceable Through Title V Permit
4. If the gasoline throughput exceeds either 10,000 gallons per any consecutive 30-day period or 24,000 gallons per calendar year, then the facility shall notify the District within 30 days. [District Rule 4622, 6.1.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-47-4 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #281

PERMIT UNIT REQUIREMENTS

1. True Vapor Pressure (TVP) of any material introduced, placed or stored in this tank shall be less than 11.0 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The tank shall be in a leak-free condition at all times, except as allowed for in Rule 4623. The pressure-vacuum (PV) relief valve shall be set to within 10% of the maximum allowable working pressure of the tank. The PV relief valve shall be permanently labeled with the operating pressure settings. The PV relief valve shall be properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve's set pressure. Any tank gauging or sampling device shall be equipped with a leak-free cover that shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.2] Federally Enforceable Through Title V Permit
3. In lieu of testing each uncontrolled fixed roof tank, the permittee may conduct a TVP testing of the organic liquid stored in a representative tank provided the requirements of Sections 6.2.1.1.1 through 6.2.1.1.5 are met. [District Rule 4623, 6.2.1] Federally Enforceable Through Title V Permit
4. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005). [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity range of greater than 20 deg up to 30 deg, as determined by ASTM Method D 287, may be determined by using other equivalent test methods approved by APCO, ARB, and EPA. TVP of crude oil with API gravity of 20 deg or less may be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for the Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph". [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 (2000) e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623, 6.4.2] Federally Enforceable Through Title V Permit
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623, 6.3.6] Federally Enforceable Through Title V Permit
8. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity (if required). [District Rule 4623, 6.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

10. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit

11. Permittee shall keep in their facility at all times a copy of the letter sent to the APCO requesting participation in the Rule 4623 Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program, and maintain the records of annual tank inspections, maintenance, and cleaning to document the participation in the program. [District Rule 4623] Federally Enforceable Through Title V Permit

12. Permittee shall comply with all applicable Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program requirements specified in Tables 3 to 6 of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit

13. Permittee shall maintain records of TVP prior to tank interior cleaning and length of time to accomplish tank interior cleaning. [District NSR Rule & Rule 4623] Federally Enforceable Through Title V Permit

14. Permittee shall annually inspect hatch, tank seals and seams, cable seals, and piping components including but not limited to valves, flanges, and connectors directly affixed to the tank or within 5 feet of the tank. Inspections shall be conducted visually and using a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21. Permittee shall annually inspect, either visually or ultrasonically as appropriate, the external shells and roofs of uninsulated tanks for integrity. [District Rule 4623] Federally Enforceable Through Title V Permit

15. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 30 drops per minute or greater shall be repaired within 8 hours after detection. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 3 drops per minutes or greater but less than 30 drops per minute shall be repaired within 24 hours after detection. [District Rule 4623] Federally Enforceable Through Title V Permit

16. For leaking components directly affixed to the tank or within 5 feet of the tank, permittee shall immediately affix a tag and maintain records of liquid leak and gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak free condition. [District Rule 4623] Federally Enforceable Through Title V Permit

17. Leaking components directly affixed to the tank or within 5 feet of the tank that have been discovered by the operator and have been immediately tagged and repaired within the deadlines specified shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified shall constitute a violation of this rule. Any component directly affixed to the tank or within 5 feet of the tank found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program. [District Rule 4623] Federally Enforceable Through Title V Permit

18. Operator shall maintain an inspection log containing the following: 1) Location of leaking component; 2) Type of component leaking and leak emissions level detected; 3) Date of leak detection and method of detection; 4) Date of leak repair and method of repair; 5) Date and emission level of recheck after leak is repaired. This inspection log shall be made available to District personal upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

19. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure of the tank. [District Rule 4623, 5.4] Federally Enforceable Through Title V Permit

20. Operator shall determine the true vapor pressure of the organic liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

21. As used in this permit, the term "source or type of organic liquid" shall mean organic liquids with similar characteristics. The operator shall maintain records of API gravity of organic liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-48-4 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #282

PERMIT UNIT REQUIREMENTS

1. True Vapor Pressure (TVP) of any material introduced, placed or stored in this tank shall be less than 11.0 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The tank shall be in a leak-free condition at all times, except as allowed for in Rule 4623. The pressure-vacuum (PV) relief valve shall be set to within 10% of the maximum allowable working pressure of the tank. The PV relief valve shall be permanently labeled with the operating pressure settings. The PV relief valve shall be properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve's set pressure. Any tank gauging or sampling device shall be equipped with a leak-free cover that shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.2] Federally Enforceable Through Title V Permit
3. In lieu of testing each uncontrolled fixed roof tank, the permittee may conduct a TVP testing of the organic liquid stored in a representative tank provided the requirements of Sections 6.2.1.1.1 through 6.2.1.1.5 are met. [District Rule 4623, 6.2.1] Federally Enforceable Through Title V Permit
4. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005). [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity range of greater than 20 deg up to 30 deg, as determined by ASTM Method D 287, may be determined by using other equivalent test methods approved by APCO, ARB, and EPA. TVP of crude oil with API gravity of 20 deg or less may be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for the Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph". [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 (2000) e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623, 6.4.2] Federally Enforceable Through Title V Permit
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623, 6.3.6] Federally Enforceable Through Title V Permit
8. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity (if required). [District Rule 4623, 6.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

10. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit

11. Permittee shall keep in their facility at all times a copy of the letter sent to the APCO requesting participation in the Rule 4623 Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program, and maintain the records of annual tank inspections, maintenance, and cleaning to document the participation in the program. [District Rule 4623] Federally Enforceable Through Title V Permit

12. Permittee shall comply with all applicable Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program requirements specified in Tables 3 to 6 of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit

13. Permittee shall maintain records of TVP prior to tank interior cleaning and length of time to accomplish tank interior cleaning. [District NSR Rule & Rule 4623] Federally Enforceable Through Title V Permit

14. Permittee shall annually inspect hatch, tank seals and seams, cable seals, and piping components including but not limited to valves, flanges, and connectors directly affixed to the tank or within 5 feet of the tank. Inspections shall be conducted visually and using a portable hydrocarbon detection instrument conducted in accordance with EPA Method 21. Permittee shall annually inspect, either visually or ultrasonically as appropriate, the external shells and roofs of uninsulated tanks for integrity. [District Rule 4623] Federally Enforceable Through Title V Permit

15. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 30 drops per minute or greater shall be repaired within 8 hours after detection. Liquid components directly affixed to the tank or within 5 feet of the tank that have a liquid leak rate of 3 drops per minutes or greater but less than 30 drops per minute shall be repaired within 24 hours after detection. [District Rule 4623] Federally Enforceable Through Title V Permit

16. For leaking components directly affixed to the tank or within 5 feet of the tank, permittee shall immediately affix a tag and maintain records of liquid leak and gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak free condition. [District Rule 4623] Federally Enforceable Through Title V Permit

17. Leaking components directly affixed to the tank or within 5 feet of the tank that have been discovered by the operator and have been immediately tagged and repaired within the deadlines specified shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified shall constitute a violation of this rule. Any component directly affixed to the tank or within 5 feet of the tank found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program. [District Rule 4623] Federally Enforceable Through Title V Permit

18. Operator shall maintain an inspection log containing the following: 1) Location of leaking component; 2) Type of component leaking and leak emissions level detected; 3) Date of leak detection and method of detection; 4) Date of leak repair and method of repair; 5) Date and emission level of recheck after leak is repaired. This inspection log shall be made available to District personal upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

19. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure of the tank. [District Rule 4623, 5.4] Federally Enforceable Through Title V Permit

20. Operator shall determine the true vapor pressure of the organic liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of organic liquid entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

21. As used in this permit, the term "source or type of organic liquid" shall mean organic liquids with similar characteristics. The operator shall maintain records of API gravity of organic liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-49-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
11,508 GALLON FIXED ROOF PETROLEUM STORAGE TANK #284

PERMIT UNIT REQUIREMENTS

1. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure of the tank. [District Rule 4623, 5.4] Federally Enforceable Through Title V Permit
2. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit
3. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005). [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity range of greater than 20 deg up to 30 deg, as determined by ASTM Method D 287, may be determined by using other equivalent test methods approved by APCO, ARB, and EPA. TVP of crude oil with API gravity of 20 deg or less may be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for the Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph". [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended May 19, 2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
7. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (amended 5/19/2005). [District Rule 4623]

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PERMIT UNIT: S-44-52-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #803

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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PERMIT UNIT: S-44-79-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
113,736 GALLON FIXED ROOF STORAGE TANK #2009

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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PERMIT UNIT: S-44-133-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 3501)

PERMIT UNIT REQUIREMENTS

1. Pressure/vacuum valve connected to tank shall activate at 0.5 oz. pressure and 0.5 oz. vacuum. [District NSR Rule] Federally Enforceable Through Title V Permit
2. All piping, valves and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging or sampling device shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Average daily throughput of total fluids (on a quarterly basis) shall not exceed 10,000 bbl/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Tank shall be equipped with stored liquid temperature indicator. [District Rule 2010] Federally Enforceable Through Title V Permit
6. Permittee shall maintain accurate records of storage temperature, maximum true vapor pressure, and daily fluid throughput of petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (as amended 5/19/2005). [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
11. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
14. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-134-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE/VACUUM VALVE. (ID# 3502)

PERMIT UNIT REQUIREMENTS

1. Pressure/vacuum valve connected to tank shall activate at 0.5 oz. pressure and 0.5 oz. vacuum. [District NSR Rule] Federally Enforceable Through Title V Permit
2. All piping, valves and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging or sampling device shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Average daily throughput of total fluids (on a quarterly basis) shall not exceed 10,000 bbl/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Tank shall be equipped with stored liquid temperature indicator. [District Rule 2010] Federally Enforceable Through Title V Permit
6. Permittee shall maintain accurate records of storage temperature, maximum true vapor pressure, and daily fluid throughput of petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (as amended 5/19/2005). [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
11. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
14. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-135-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
1,008,000 GALLON, 60 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 24001)

PERMIT UNIT REQUIREMENTS

1. Pressure/vacuum valve connected to tank shall activate at 0.5 oz. pressure and 0.5 oz. vacuum. [District NSR Rule] Federally Enforceable Through Title V Permit
2. All piping, valves and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Any gauging or sampling device shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Average daily throughput of total fluids (on a quarterly basis) shall not exceed 10,000 bbl/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Tank shall be equipped with stored liquid temperature indicator. [District Rule 2010] Federally Enforceable Through Title V Permit
6. Permittee shall maintain accurate records of storage temperature, maximum true vapor pressure, and daily fluid throughput of petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (as amended 5/19/2005). [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
11. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit

13. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit

14. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-141-3 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
609 HP DIESEL-FIRED EMERGENCY IC ENGINE DRIVING A ELECTRICAL GENERATOR, EQUIPMENT #D-203

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated using only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight. [17 CCR 93115 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

11. Effective May 3, 2013, The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63.6603(a)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-142-3 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
65 HP ONAN MODEL 30EK-4XR/3434A NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A 30 KW ELECTRIC GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter. [District NSR Rule, District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The permittee shall operate a non-resettable elapsed operating time meter. The owner or operator shall maintain the required meter in proper operating condition. [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
3. This engine shall only be fired on PUC quality natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
6. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

12. Effective October 19, 2013, The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63.6603(a)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-143-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-1

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-144-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-2

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-145-8 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ASPHALT AIR BLOWING OPERATION (STILL #1) WITH 690 BBL STILL, HOT OIL EXPANSION TANK, SEAL POT/HEAVY GAS OIL SCRUBBER, FIN FAN COOLER, AND 64.3 MMBTU/HR NATURAL GAS-FIRED OFFGAS INCINERATOR/PROCESS HEATER

PERMIT UNIT REQUIREMENTS

1. Incinerator may receive still offgas from stills #1 and #2 (S-44-145 and '146). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Incinerator fuel shall be PUC regulated natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Exhaust gas louver from incinerator to heat recovery section may be open only when still offgasses are being incinerated, including when still is being charged, pumped out, or when still blowers are operating. [District Rule 2010] Federally Enforceable Through Title V Permit
4. Incinerator fuel use shall not exceed 768 Mscf/day, 55,918 Mscf/quarter, and 223.7 MMscf/year. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Incinerator shall be equipped with operational continuous combustion zone temperature monitor/recorder (with +/- 20 degrees F accuracy over operating range). [40 CFR 60.473(b)] Federally Enforceable Through Title V Permit
6. Incinerator temperature shall be maintained at 1,450 degrees F minimum, or other temperature determined during initial compliance demonstration that results in compliance with VOC control efficiency and lb/hr emission limits. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Combined feedstock throughput for stills #1 (S-44-145) and #2 (S-44-146) shall not exceed 1,050 ton/day and it shall not exceed 259,150 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Incinerator VOC destruction efficiency shall be not less than 98% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Incinerator emission rate (shared w/ S-44-145 and '146), except during startup, shall not exceed either of the following: NOx: 25 ppmvd @ 15% O2, or CO: 16.5 ppmvd @ 15% O2. Incinerator startup shall not exceed 8 hr/day. [District NSR Rule and District Rule 4301] Federally Enforceable Through Title V Permit
10. Incinerator emission rate (shared w/ S-44-145 and '146) shall not exceed any of the following: PM10, 0.058 lbPM10/ton; SOx, 0.1676 lb SOx/ton; VOC, 0.075 lb VOC/ton of asphalt input. [District NSR Rule, District Rules 4201, 4301, and 40 CFR 60.472(b)(1)] Federally Enforceable Through Title V Permit
11. Incinerator emissions (shared with unit S-44-145 and S-44-146) shall not exceed any of the following: 77.0 lb NOx/day, or 20,550 lb NOx/year. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. The operator shall determine the asphalt blowing still's particulate matter emission rate (E) using the test methods and procedures prescribed in 40 CFR 60, Subpart UU, 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii). [40 CFR 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii)] Federally Enforceable Through Title V Permit
14. No operator shall cause to be discharged into the atmosphere from any blowing still, exhaust gases with an opacity greater than zero percent. [40 CFR 60.472(b)(5)] Federally Enforceable Through Title V Permit
15. Visible emissions test of the blowing still exhaust shall be conducted monthly using EPA Method 9. [40 CFR 60.474(c)(5) and 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit
17. This unit shall be tested for compliance with the SOx (lb/MMBtu) emissions limit at least once every 12 months using ARB Method 8 or 100 or EPA Method 6, 6B, 6C, or 8. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of SOx at least once every quarter (in which a source test is not performed) using gas detection (Draeger, Kitigawa, or equivalent) tubes. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
19. For gas detection tube monitoring, permittee shall determine sulfur content of incinerator exhaust gas every 30 minutes when receiving gas from the stills during blowing process. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
20. SOx emissions expressed as lbs-SOx/ton shall be calculated using the exhaust concentration of SOx obtained from Draeger tube analysis or source test, combined still blower flow rate and incinerator flow rate determined using EPA Method 19, and asphalt charge to the still in tons/hr. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
21. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
24. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081] Federally Enforceable Through Title V Permit
25. The following test methods shall be used: PM (kg/Mg) - EPA Method 5A and calculation procedures specified in NSPS Subpart UU; and PM10 (lb/ton) - ARB Method 201A & 202. [District Rules 1081 and 40 CFR 60.474] Federally Enforceable Through Title V Permit
26. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit
27. The portable analyzer shall be calibrated prior to each use with a two-point calibration method (zero and span). Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

28. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

29. Permittee shall maintain records of daily asphalt throughput (tons) for each still and daily, quarterly, and annual gas use, and quarterly gas detection tube readings for a period of five years and shall make such records readily available for District inspection upon request. [District NSR Rule, 1070, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

30. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and types of fuels combusted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

31. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-146-6 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
ASPHALT AIR BLOWING OPERATION (STILL #2) WITH 690 BBL STILL AND VAPOR PIPING TO OFFGAS INCINERATOR LISTED ON S-44-145

PERMIT UNIT REQUIREMENTS

1. Feedstock throughput for stills #1 and #2 (S-44-145 and '146) shall not exceed that listed in S-44-145. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Emission rate shall not exceed that listed in S-44-145. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. No operator shall cause to be discharge into the atmosphere from any blowing still particulate matter in excess of 0.67 kilograms of particulate per megagram of asphalt charged to the still when a catalyst is added to the still; and particulate matter in excess of 0.60 kilograms of particulate per megagram of asphalt charged to the still during blowing without a catalyst. [40 CFR 60.472(b)(1) & (b)(3)] Federally Enforceable Through Title V Permit
5. The operator shall determine the asphalt blowing still's particulate matter emission rate (E) using the test methods and procedures prescribed in 40 CFR 60, Subpart UU, 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii). [40 CFR 60.474(c)(1), (c)(2), (c)(4)(i), (c)(4)(ii)] Federally Enforceable Through Title V Permit
6. Exhaust gas louver from incinerator to heat recovery section may be open only when still offgasses are being incinerated, including when still is being charged, pumped out, or when still blowers are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Incinerator shall be equipped with operational continuous combustion zone temperature monitor/recorder (with +/- 20 degrees F accuracy over operating range). [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Incinerator temperature shall be maintained at 1,450 degrees F minimum, or other temperature determined during initial compliance demonstration that results in compliance with VOC control efficiency and lb/hr emission limits. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Incinerator VOC destruction efficiency shall be not less than 98% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Incinerator emission rate (shared w/ S-44-145 and '146), except during startup, shall not exceed either of the following: NOx: 25 ppmvd @ 15% O2, or CO: 16.5 ppmvd @ 15% O2. Incinerator startup shall not exceed 8 hr/day. [District NSR Rule and District Rule 4301] Federally Enforceable Through Title V Permit
11. Incinerator emission rate (shared w/ S-44-145 and '146) shall not exceed any of the following: PM10, 0.058 lbPM10/ton; SOx, 0.1676 lb SOx/ton; VOC, 0.075 lb VOC/ton of asphalt input. [District NSR Rule, District Rules 4201, 4301, and 40 CFR 60.472(b)(1)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Incinerator emissions (shared with unit S-44-145 and S-44-146) shall not exceed any of the following: 77.0 lb NOx/day, or 20,550 lb NOx/year. [District NSR Rule] Federally Enforceable Through Title V Permit
13. No operator shall cause to be discharged into the atmosphere from any blowing still, exhaust gases with an opacity greater than zero percent. [40 CFR 60.472(b)(5)] Federally Enforceable Through Title V Permit
14. Visible emissions test of the blowing still exhaust shall be conducted monthly using EPA Method 9. [40 CFR 60.474(c)(5) and 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit
16. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit
18. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-148-4 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
FLUX TRUCK UNLOADING AND HEATED RAILCAR UNLOADING OPERATIONS WITH 5000 BBL HEATED FLUX STORAGE TANK T-5025

PERMIT UNIT REQUIREMENTS

1. Flux throughput for storage tank T-5025 shall not exceed 878,975 bbl/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. VOC emission rate shall not exceed 1.0 lb/day and 188 lb/year. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Permittee shall maintain records of bbls of flux received and shall make such records readily available for District inspection upon request. [District Rules 1070 and District NSR Rule] Federally Enforceable Through Title V Permit
4. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623 (amended 5/19/2005). [District Rule 4623] Federally Enforceable Through Title V Permit
5. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/05). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended May 19, 2005. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
8. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-149-4 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
2,600 BBL AIR BLOWN ASPHALT BLENDING TANK T-2601 WITH NITROGEN BLANKETING VENTING TO MONSANTO MODEL AVP 1000 ASPHALT VENT PACKAGE [SHARED WITH TANK T-2603 (S-44-150)] AND ONE CAMERON ENVIRONMENTAL MODEL TSU-4000R RADIAL FLOW VAPOR PHASE CARBON ADSORBER IN SERIES.

PERMIT UNIT REQUIREMENTS

1. Exhaust gases shall not exceed 0% opacity, except for one consecutive 15 minute maximum period in any 24-hour period, when the transfer lines are blown for cleaning. The control device shall not be by-passed during this 15-minute period. [District NSR Rule and 40 CFR 60.472(c)] Federally Enforceable Through Title V Permit
2. Tank shall vent only to control system. [District NSR Rule] Federally Enforceable Through Title V Permit
3. VOC emission rate shall not exceed 1.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the ABA facility, or any malfunction of the air pollution control equipment. [District Rule 4001] Federally Enforceable Through Title V Permit
5. Visible emissions inspection for the asphalt storage tank shall be conducted on a monthly basis using EPA Method 9. Records of the inspection shall be kept, maintained, and made available upon request. [District Rule 2520, 9.3.2 and 40 CFR 60.474(c)(5)] Federally Enforceable Through Title V Permit
6. This tank shall only be used to store asphalt with True Vapor Pressure (TVP) less than 3.5 KPa (0.5 psia). [District Rule 4623 and Subpart Kb 60.110b (c)] Federally Enforceable Through Title V Permit
7. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/2005). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended 5/19/2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
10. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-150-3 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
2,600 BBL/109,200 GALLON AIR BLOWN ASPHALT BLENDING TANK T-2603 WITH NITROGEN BLANKETING VENTING TO SHARED MONSANTO MIST ELIMINATOR LISTED ON TANK T-2601 (S-44-149)

PERMIT UNIT REQUIREMENTS

1. Exhaust gases shall not exceed 0% opacity, except for one consecutive 15 minute maximum period in any 24-hour period, when the transfer lines are blown for cleaning. The control device shall not be by-passed during this 15-minute period. [District NSR Rule and 40 CFR 60.472(c)] Federally Enforceable Through Title V Permit
2. Tank shall vent only to control system. [District NSR Rule] Federally Enforceable Through Title V Permit
3. VOC emission rate shall not exceed 1.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the ABA facility, or any malfunction of the air pollution control equipment. [District Rule 4001] Federally Enforceable Through Title V Permit
5. Visible emissions inspection for the asphalt storage tank shall be conducted on a monthly basis using EPA Method 9. Records of the inspection shall be kept, maintained, and made available upon request. [District Rule 2520, 9.3.2 and 40 CFR 60.474(c)(5)] Federally Enforceable Through Title V Permit
6. This tank shall only be used to store asphalt with True Vapor Pressure (TVP) less than 3.5 KPa (0.5 psia). [District Rule 4623 and Subpart Kb 60.110b (c)] Federally Enforceable Through Title V Permit
7. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/2005). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended 5/19/2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
10. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-152-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-153-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-154-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80003

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-155-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
80,000 BBL ASPHALT STORAGE TANK T-80004

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-156-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
96,000 BBL ASPHALT STORAGE TANK T-96001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-157-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
400 BBL (17,000 GALLON) FIXED ROOF PETROLEUM LIQUIDS STORAGE TANK #TK-401 WITH TRUCK LOADOUT

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a pressure/vacuum relief valve set to within 10% of the maximum allowable working pressure of the tank. [District NSR Rule and District Rule 4623, 5.4] Federally Enforceable Through Title V Permit
2. Tank shall be equipped with vapor balance return line from trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Vapor return hose shall be connected to tank vapor space whenever stored liquids are being transferred into trucks and all vapor displaced during truck loading shall be returned to tank. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Reid vapor pressure of material stored in tank shall not exceed 3.7 psia. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Emission rate from storage tank shall not exceed 11.0 lbs VOC per day and 4,030 lbs VOC per year. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Emission rate from truck loading operation shall not exceed 1.5 lbs VOC per day and 373 lbs VOC per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Tank throughput (i.e. amount loaded into trucks) shall not exceed 3,999 gallons per day and 1,051,200 gallons per year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records of amount of liquids transferred to trucks on a daily and annual basis. Records shall be kept and made readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b (b)] Federally Enforceable Through Title V Permit
10. True vapor pressure shall be determined by measuring the Reid vapor pressure using ASTM Method D 323 and converting RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with Appendix B of District Rule 4623 (amended 5/19/2005) or other method approved by the APCD. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.4 of District Rule 4623 (amended 5/19/2005). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended 5/19/2005). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit

13. As used in this permit, the term "type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-158-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
10,000 BBL ASPHALT STORAGE TANK TK-10025

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-160-2 **EXPIRATION DATE:** 08/31/2016

SECTION: NE07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5001

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-161-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 07 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
211,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5002

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] Federally Enforceable Through Title V Permit
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623] Federally Enforceable Through Title V Permit
3. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623] Federally Enforceable Through Title V Permit
4. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623] Federally Enforceable Through Title V Permit
5. TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-165-2 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104373)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO-approved alternative. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
3. Permittee shall properly operate and maintain engine and monitor the operational characteristics of the engine as recommended by the engine manufacturer. [District Rule 4702] Federally Enforceable Through Title V Permit
4. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
5. This nonroad transportable engine shall not be operated at one location for more than 12 consecutive months and shall meet all the requirements of a nonroad transportable engine, per CFR Title 40 Part 89. [CCR, Title 17 and District Rule 4701] Federally Enforceable Through Title V Permit
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
7. Operation of IC engine shall not exceed 200 hours/yr without prior District approval through issuance of an Authority to Construct. [District Rules 2201, 4102 and 4702] Federally Enforceable Through Title V Permit
8. NOx emissions (referenced as NO2) shall not exceed 3.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions (referenced as methane) shall not exceed 0.2 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. CO emissions shall not exceed 0.9 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The PM10 emissions rate from the engine shall not exceed 0.25 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
12. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
13. The operator shall maintain records of the cumulative hours of operation on a 12 month rolling average. These records shall be updated at least monthly. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records including the date, the number of hours of operation, the purpose of the operation, the type of fuel used, and records of operational characteristics monitoring. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

15. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-166-2 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104372)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO-approved alternative. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
3. Permittee shall properly operate and maintain engine and monitor the operational characteristics of the engine as recommended by the engine manufacturer. [District Rule 4702] Federally Enforceable Through Title V Permit
4. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
5. This nonroad transportable engine shall not be operated at one location for more than 12 consecutive months and shall meet all the requirements of a nonroad transportable engine, per CFR Title 40 Part 89. [CCR, Title 17 and District Rule 4701] Federally Enforceable Through Title V Permit
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
7. Operation of IC engine shall not exceed 200 hours/yr without prior District approval through issuance of an Authority to Construct. [District Rules 2201, 4102 and 4702] Federally Enforceable Through Title V Permit
8. NOx emissions (referenced as NO2) shall not exceed 3.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions (referenced as methane) shall not exceed 0.2 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. CO emissions shall not exceed 0.9 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The PM10 emissions rate from the engine shall not exceed 0.25 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
12. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
13. The operator shall maintain records of the cumulative hours of operation on a 12 month rolling average. These records shall be updated at least monthly. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records including the date, the number of hours of operation, the purpose of the operation, the type of fuel used, and records of operational characteristics monitoring. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

15. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

Tricor Refining LLC
S-44
S-1160166

ATTACHMENT C

Detailed Summary List of Facility Permits

Detailed Facility Report

For Facility=44 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

TRICOR REFINING, LLC
1134 MANOR STREET
BAKERSFIELD, CA

FAC # **S 44**
STATUS: **A**
TELEPHONE: **6617065229**

TYPE: **TitleV**
TOXIC ID: **50296**
EXPIRE ON: **08/31/2016**
AREA: **23 / 320**
INSP. DATE: **07/16**

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-44-1-17	61 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	DORMANT 61 MMBTU/HR CRUDE FRACTIONATION PLANT INCLUDING LIQUID RING STAGED VACUUM PUMP WITH SEPARATOR, FLAME ARRESTOR, EMERGENCY VENT STACK, GAS/LIQUID SEPARATOR, THREE VACUUM VESSELS, ONE ATMOSPHERIC VESSEL, AND FOUR HEATERS
S-44-2-24	40 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	SOLVENT EXTRACTION PLANT INCLUDING AIR STRIPPER, TWO ROTATING DISC COLUMNS, AND 40 MMBTU/HR SOLVENT PLANT VERTICAL CYLINDRICAL TYPE HOT OIL HEATER WITH A ZEECO MODEL GLSF-16 LOW NOX BURNER
S-44-3-18	5 MMBtu/hr	3020-02 G	1	855.00	855.00	A	DORMANT LUBE OIL FINISHING PLANT INCLUDING 6 MMBTU/HR CHARGE VERTICAL CYLINDRICAL HEATER, TWO HYDROGEN REACTORS, TWO COMPRESSORS, SEPARATORS, FLASH POT, AMINE TREATER WITH RECEIVER AND REGENERATOR, H2S PRODUCT STRIPPER (3-D-51), STRIPPER ACCUMULATOR, UTILITY FRACTIONATOR COLUMN (D-11) (SHARED WITH S-44-4), AND H2S SCRUBBER AND FLARE SERVING HYDROGEN RICH WASTE GAS STREAM
S-44-4-16	25 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	DORMANT 4.5 MMBTU/HR LUBE OIL FINISHING PLANT - UTILITY FRACTIONATOR INCLUDING THREE ATMOSPHERIC COLUMN NOS. D-11, D-21, & D-31, STANDBY HEATER NOS. 11, 21, & 31, AND HEAT OIL EXCHANGER NOS. E 551, E-552, & E-553
S-44-5-12	99.9 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	99.9 MMBTU/HR NATURAL GAS-FIRED ZURN MODEL 15M KEYSTONE BOILER WITH COEN STAGED AIR BURNER AND FLUE GAS RECIRCULATION
S-44-6-12	65 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	DORMANT 65 MMBTU/HR SHIPPING & RECEIVING OPERATION INCLUDING 45 MMBTU/HR ASPHALT SHIPPING FORCED DRAFT HEATER AND 20 MMBTU/HR CIRCULATING (RETORT) NATURAL DRAFT VERTICAL CYLINDRICAL HEATER
S-44-7-4	168,000 GALLONS	3020-05 E	1	258.00	258.00	A	VORTOIL, MODEL H50-GO-ICR, HORIZONTAL HYDRO-CYCLONE OIL/WATER SEPARATOR.
S-44-8-2	420,000 GALLONS	3020-05 E	1	258.00	258.00	A	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10001
S-44-9-2	420,000 GALLONS	3020-05 E	1	258.00	258.00	A	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002
S-44-10-2	420,000 GALLONS	3020-05 E	1	258.00	258.00	A	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10003
S-44-11-2	420,000 GALLONS	3020-05 E	1	258.00	258.00	A	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10004
S-44-12-2	2,284,128 GALLONS	3020-05 G	1	401.00	401.00	A	2,284,128 GALLON FIXED ROOF PETROLEUM STORAGE TANK #54001

Detailed Facility Report

For Facility=44 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-44-13-19	100 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	DORMANT (COMPLIANT) 100 MMBTU/HR CLEAVER BROOKS BOILER INCLUDING JOHN ZINK LOW NOX BURNER, H2S CAUSTIC SCRUBBER, CONTINUOUS H2S MONITOR, & BACKUP H2S REMOVAL SYSTEM WITH "SULFATREAT" ADSORBENT VERTICAL COLUMN FUEL GAS SCRUBBER WITH NOMINAL DIMENSIONS 18' LONG BY 4' DIAMETER
S-44-14-2	71 BRAKE HP	3020-10 A	1	84.00	84.00	A	71 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 30 KW ELECTRICAL GENERATOR
S-44-15-2	91 BRAKE HP	3020-10 A	1	84.00	84.00	A	91 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 50 KW ELECTRICAL GENERATOR
S-44-16-4	405 HP Aspalt Blending	3020-01 F	1	637.00	637.00	A	ASPHALT/POLYMER BLENDING OPERATION W/ 544 BBL MIX TANK #501 AND 880 BBL STORAGE TANK #1062 VENTING TO LEAN OIL ABSORBER COLUMN AND CARBON CANISTER, AND TRUCK LOADOUT
S-44-17-2	24,738 GALLONS	3020-05 C	1	142.00	142.00	A	24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602
S-44-18-2	35,490 GALLONS	3020-05 C	1	142.00	142.00	A	35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801
S-44-19-2	35,490 GALLONS	3020-05 C	1	142.00	142.00	A	35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #802
S-44-20-2	35,490 GALLONS	3020-05 C	1	142.00	142.00	A	35,490 GALLON FIXED ROOF STORAGE TANK (TANK #804)
S-44-21-2	35,910 GALLONS	3020-05 C	1	142.00	142.00	A	35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #805
S-44-22-2	35,910 GALLONS	3020-05 C	1	142.00	142.00	A	35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #806
S-44-25-2	374,178 GALLONS	3020-05 E	1	258.00	258.00	A	374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001
S-44-26-2	415,044 GALLONS	3020-05 E	1	258.00	258.00	A	415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008
S-44-27-3	473,886 GALLONS	3020-05 E	1	258.00	258.00	A	473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017
S-44-28-2	474,936 GALLONS	3020-05 E	1	258.00	258.00	A	474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018
S-44-29-2	453,096 GALLONS	3020-05 E	1	258.00	258.00	A	453,096 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10023
S-44-30-2	708,120 GALLONS	3020-05 F	1	316.00	316.00	A	708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001
S-44-31-2	708,120 GALLONS	3020-05 F	1	316.00	316.00	A	708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17002
S-44-34-2	11,298 GALLONS	3020-05 B	1	98.00	98.00	A	11,298 GALLON FIXED ROOF PETROLEUM STORAGE TANK #283
S-44-35-4	1,910 HP	3020-01 H	1	1,080.00	1,080.00	A	TRUCK AND RAILCAR LOADOUT OPERATION INCLUDING RACK NOS. 1A (6 SPOUTS), A (4 SPOUTS), B (4 SPOUTS), C (4 SPOUTS), D (4 SPOUTS), E (4 SPOUTS), & F (6 SPOUTS) AND PUMPS
S-44-36-2	252,546 GALLONS	3020-05 E	1	258.00	258.00	A	252,546 GALLON WASTEWATER STORAGE TANK #6001
S-44-37-2	84,882 GALLONS	3020-05 D	1	194.00	194.00	A	84,882 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2059
S-44-41-2	475,062 GALLONS	3020-05 E	1	258.00	258.00	A	475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009
S-44-42-2	40,236 GALLONS	3020-05 C	1	142.00	142.00	A	40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065

Detailed Facility Report

For Facility=44 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-44-44-2	325 HP	3020-01 E	1	432.00	432.00	A	325 HP COOLING TOWER #1 INCLUDING THREE PUMPS AND ONE FAN
S-44-45-2	450 HP	3020-01 F	1	637.00	637.00	A	450 HP COOLING TOWER #2 INCLUDING FOUR PUMPS AND TWO FANS
S-44-46-2	1 NOZZLE	3020-11 A	1	36.00	36.00	A	ONE 1,600 GALLON STORAGE TANK #24-1 GASOLINE STORAGE TANK (PHASE I AND PHASE II EXEMPT)
S-44-47-4	11,508 GALLONS	3020-05 B	1	98.00	98.00	A	11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #281
S-44-48-4	11,508 GALLONS	3020-05 B	1	98.00	98.00	A	11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #282
S-44-49-2	11,508 GALLONS	3020-05 B	1	98.00	98.00	A	11,508 GALLON FIXED ROOF PETROLEUM STORAGE TANK #284
S-44-52-2	35,490 GALLONS	3020-05 C	1	142.00	142.00	A	35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #803
S-44-79-2	113,736 GALLONS	3020-05 E	1	258.00	258.00	A	113,736 GALLON FIXED ROOF STORAGE TANK #2009
S-44-133-2	147,000 GAL STORAGE TANK	3020-05 E	1	258.00	258.00	A	147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 3501)
S-44-134-2	147,000 GAL STORAGE TANK	3020-05 E	1	258.00	258.00	A	147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE/VACUUM VALVE. (ID# 3502)
S-44-135-2	1,008,000 GALLONS	3020-05 G	1	401.00	401.00	A	1,008,000 GALLON, 60 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 24001)
S-44-141-3	609 HORSEPOWER	3020-10 D	1	502.00	502.00	A	609 HP DIESEL-FIRED EMERGENCY IC ENGINE DRIVING A ELECTRICAL GENERATOR, EQUIPMENT #D-203
S-44-142-3	65 Hp IC Engine	3020-10 A	1	84.00	84.00	A	65 HP ONAN MODEL 30EK-4XR/3434A NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A 30 KW ELECTRIC GENERATOR
S-44-143-2	1,600 GALLONS ANTIFOULANT TANK	3020-05 A	1	79.00	79.00	A	1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-1
S-44-144-2	1,600 GALLONS ANTIFOULANT TANK	3020-05 A	1	79.00	79.00	A	1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-2
S-44-145-8	64.3 MMBtu/hr	3020-02 H	1	1,080.00	1,080.00	A	ASPHALT AIR BLOWING OPERATION (STILL #1) WITH 690 BBL STILL, HOT OIL EXPANSION TANK, SEAL POT/HEAVY GAS OIL SCRUBBER, FIN FAN COOLER, AND 64.3 MMBTU/HR NATURAL GAS-FIRED OFFGAS INCINERATOR/PROCESS HEATER
S-44-146-6	400 HP ELECTRIC MOTOR RATING	3020-01 F	1	637.00	637.00	A	ASPHALT AIR BLOWING OPERATION (STILL #2) WITH 690 BBL STILL AND VAPOR PIPING TO OFFGAS INCINERATOR LISTED ON S-44-145
S-44-148-4	210,000 GALLONS	3020-05 E	1	258.00	258.00	A	FLUX TRUCK UNLOADING AND HEATED RAILCAR UNLOADING OPERATIONS WITH 5000 BBL HEATED FLUX STORAGE TANK T-5025
S-44-149-4	109,200 GALLONS	3020-05 E	1	258.00	258.00	A	2,600 BBL AIR BLOWN ASPHALT BLENDING TANK T-2601 WITH NITROGEN BLANKETING VENTING TO MONSANTO MODEL AVP 1000 ASPHALT VENT PACKAGE [SHARED WITH TANK T-2603 (S-44-150)] AND ONE CAMERON ENVIRONMENTAL MODEL TSU-4000R RADIAL FLOW VAPOR PHASE CARBON ADSORBER IN SERIES.

Detailed Facility Report

For Facility=44 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-44-150-3	109,200 GALLONS	3020-05 E	1	258.00	258.00	A	2,600 BBL/109,200 GALLON AIR BLOWN ASPHALT BLENDING TANK T-2603 WITH NITROGEN BLANKETING VENTING TO SHARED MONSANTO MIST ELIMINATOR LISTED ON TANK T-2601 (S-44-149)
S-44-152-2	80,000 BBL ASPHALT TANK	3020-05 G	1	401.00	401.00	A	80,000 BBL ASPHALT STORAGE TANK T-80001
S-44-153-2	80,000 BBL ASPHALT TANK	3020-05 G	1	401.00	401.00	A	80,000 BBL ASPHALT STORAGE TANK T-80002
S-44-154-2	80,000 BBL ASPHALT TANK	3020-05 G	1	401.00	401.00	A	80,000 BBL ASPHALT STORAGE TANK T-80003
S-44-155-2	80,000 BBL ASPHALT TANK	3020-05 G	1	401.00	401.00	A	80,000 BBL ASPHALT STORAGE TANK T-80004
S-44-156-2	96,000 BBL ASPHALT TANK	3020-05 G	1	401.00	401.00	A	96,000 BBL ASPHALT STORAGE TANK T-96001
S-44-157-2	17,000 GALLON	3020-05 B	1	98.00	98.00	A	400 BBL (17,000 GALLON) FIXED ROOF PETROLEUM LIQUIDS STORAGE TANK #TK-401 WITH TRUCK LOADOUT
S-44-158-2	420,000 GALLONS ASPHALT TANK	3020-05 E	1	258.00	258.00	A	10,000 BBL ASPHALT STORAGE TANK TK-10025
S-44-160-2	210,000 GALLONS	3020-05 E	1	258.00	258.00	A	210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5001
S-44-161-2	211,500 GALLONS	3020-05 E	1	258.00	258.00	A	211,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5002
S-44-165-2	80 HP	3020-10 A	1	84.00	84.00	A	TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104373)
S-44-166-2	80 HP	3020-10 A	1	84.00	84.00	A	TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104372)

Number of Facilities Reported: 1