



OCT 31 2011

Rolf Scherer
Tricor Refining, LLC
P. O. Box 5877
Bakersfield, CA 93388-5877

**Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # S-44
Project # S-1070111**

Dear Mr. Scherer:

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 for its petroleum refining operation at 1134 Manor Street, Bakersfield, CA, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Attachments

C: Kamaljit Sran, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
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34946 Flyover Court
Bakersfield, CA 93308-9725
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OCT 31 2011

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St.
San Francisco, CA 94105

**Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # S-44
Project # S-1070111**

Dear Mr. Rios:

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 for its petroleum refining operation at 1134 Manor Street, Bakersfield, CA, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Attachments

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OCT 31 2011

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # S-44
Project # S-1070111**

Dear Mr. Tollstrup:

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 for its petroleum refining operation at 1134 Manor Street, Bakersfield, CA, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

Attachments

C: Kamaljit Sran, Permit Services Engineer

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Bakersfield Californian

**NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED RENEWAL OF
THE FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Tricor Refining, LLC for its petroleum refining operation at 1134 Manor Street, Bakersfield, CA, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1070111, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested by the public, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed renewed permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

TRICOR REFINING, LLC

TITLE V PERMIT RENEWAL ENGINEERING EVALUATION

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TITLE V PERMIT RENEWAL EVALUATION

Petroleum Refining Operation

Engineer: Kamaljit Sran
Date: October 27, 2011

Facility #: S-44
Facility Name: Tricor Refining, LLC.
Mailing Address: P.O. Box 5877
Bakersfield, CA 93388-5877

Contact Person: Rolf Scherer
Phone: (661) 852-2508

Responsible Official: Merle Menghini
Title: Refinery Manager

Project #: S-1070111
Deemed Complete: February 13, 2007

I. PROPOSAL

Tricor Refining, LLC. received its initial Title V permit on December 12, 2002. 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 issuance of the renewed Title V permit.

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.

The applicant has requested some changes to permit conditions. The District has granted most of the requested changes. Some of the requested changes pertain to dormant emission units, these changes can only be granted upon permit unit's operating status becomes active. See Attachment E for District's responses to the each requested change.

II. FACILITY LOCATION

The Tricor Refining operation is located at 1134 Manor Street in Bakersfield, California.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment C.

IV. MODEL GENERAL PERMIT TEMPLATE USAGE

The applicant has not requested to utilize any model general permit template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Since applicant is not requested to use any model general permit templates, the proposed permit is in its entirety subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

Following rules are that are applicable to operation of this facility has been updated since issuance of the initial Title V permit.

- District Rule 2020, Exemptions
(Amended September 21, 2006 ⇒ Amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule
(Amended December 18, 2008 ⇒ Amended April 21, 2011)
- District Rule 4101, Visible Emissions
(Amended November 15, 2001 ⇒ Amended February 17, 2005)
- District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3
(Amended March 17, 2005 ⇒ Amended October 16, 2008)
- District Rule 4601, Architectural Coatings
(Amended October 31, 2001 ⇒ Amended December 17, 2009)
- District Rule 4623, Storage of Organic Liquids
(Amended December 20, 2001 ⇒ Amended May 19, 2005)
- District Rule 4702, Internal Combustion Engines–Phase 2
(Amended April 20, 2006 ⇒ Amended August 18, 2011)
- 40 CFR Part 60, Subpart J, Standards of Performance for Petroleum Refineries (Amended June 24, 2008)

- 40 CFR Part 60, Subpart GGG, Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After January 4, 1983, and on or Before November 7, 2006 (Amended June 2, 2008)

B. Rules Removed

Following rules are that were applicable to operation of this facility has been removed since issuance of the initial Title V permit.

- District Rule 4451, Valves, Pressure Relief Valves, Flanges, Threaded Connections and Process Drains at Petroleum Refineries and Chemical Plants (Amended April 20, 2005)

This rule was removed and replaced by District Rule 4455.

- District Rule 4452, Pump and Compressor Seals at Petroleum Refineries and Chemical Plants (Amended April 20, 2005)

This rule was removed and replaced by District Rule 4455.

- District Rule 8020, 8030, and 8060, Fugitive Dust (PM₁₀) Emissions (amended April 25, 1996)

These rules were removed and were replaced with District Rules 8021, 8031, and 8061.

C. Rules Added

Following rules are that are applicable to operation of this facility has been adopted since issuance of the initial Title V permit.

- 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 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (Adopted April 20, 2005)
- District Rule 8011, General Requirements (Adopted November 15, 2001 ⇒ Amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (Adopted November 15, 2001 ⇒ Amended August 19, 2004)

- District Rule 8031, Bulk Materials
(Adopted November 15, 2001 ⇒ Amended August 19, 2004)
- District Rule 8041, Carryout and Trackout
(Adopted November 15, 2001 ⇒ Amended August 19, 2004)
- District Rule 8051, Open Areas
(Adopted November 15, 2001 ⇒ Amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads
(Adopted November 15, 2001 ⇒ Amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
(Adopted November 15, 2001 ⇒ Amended September 16, 2004)
- 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

D. Rules Not Updated

Following rules are that are applicable to operation of this facility has not been updated since issuance of the initial Title V permit.

- District Rule 1100, Equipment Breakdown (Amended December 17, 1992)
- District Rule 1160, Emission Statements (Adopted November 18, 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 4201, Particulate Matter Concentration (Amended December 17, 1992)
- District Rule 4453, Refinery Vacuum Producing Devices or Systems
(Amended December 17, 1992)

- District Rule 4454, Refinery Process Unit Turnaround (Amended December 17, 1992)
 - District Rule 4625, Wastewater Separators (Amended December 17, 1992)
 - District Rule 4641, Cutback, Slow cure, and Emulsified Asphalt, Paving and Maintenance Operations (Amended December 17, 1992)
 - District Rule 4801, Sulfur Compounds (Amended December 17, 1992)
 - 40 CFR Part 60, Subparts 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
 - 40 CFR Part 60, Subparts Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984
 - 40 CFR Part 60, Subparts 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
 - 40 CFR Part 60, Subpart UU, Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture
 - 40 CFR Part 60, Subpart QQQ, Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems
 - 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
 - 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
 - 40 CFR Part 64, Compliance Assurance Monitoring (CAM)
 - 40 CFR Part 82, Subpart F, Stratospheric Ozone
 - Petroleum Refinery MACT Standard
-

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 Operating 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

None

B. Rules Not Updated

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

Condition 41 of facility wide requirements (S-44-0-2) is based on the 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 last renewal of the Title V permit.

A. District Rule 2020 - Exemptions

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

B. District Rule 2201 – New and Modified Stationary Source Review Rule

Renewal of federally mandated operating permit is not considered a modification of stationary source, therefore will not addressed any further in this evaluation.

Permit unit S-44-2-22 was subject to the District NSR Rule upon application for Authority to Construct (ATC) S-44-2-23. In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July

10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- Conditions 1 & 2 from ATC S-44-2-23 are not included in requirements for this permit unit. These conditions are obsolete upon the implementation of this ATC.
- Condition 3 from ATC S-44-2-23 is included as condition 41 of facility-wide requirements S-44-0-2.
- Condition 4 from ATC S-44-2-23 has been included as condition 22 of facility-wide requirements S-44-0-2.
- Condition 5 from ATC S-44-2-23 has been included as condition 1 of requirements of this permit unit.
- Conditions 6 through 10 from ATC S-44-2-23 have been included as conditions 2 through 6 of the requirements for this permit unit.
- Condition 11 from ATC S-44-2-23 has not been included in the requirements of this permit unit. Since written notification is redundant with recordkeeping requirements for hours of operation and fuel use for this permit unit.
- Conditions 12 & 13 from ATC S-44-2-23 have been included as conditions 7 & 8 of the requirements for this permit unit.
- Condition 14 from ATC S-44-2-23 has been included as condition 11 of requirements of this permit unit.
- Conditions 15 & 16 from ATC S-44-2-23 have been included as conditions 9 & 10 of the requirements for this permit unit.
- Conditions 17 through 37 from ATC S-44-2-23 have been included as conditions 12 through 32 of the requirements for this permit unit.
- Conditions 38, 39, & 40 from ATC S-44-2-23 are not included in requirements for this permit unit. These conditions are obsolete since this ATC removed refinery gas firing for this unit so requirements of 40 CFR 60 Subpart J is not applicable anymore.
- Conditions 41 through 44 of ATC S-44-2-23 have been included as conditions 33 through 36 of the requirements for this permit unit.

C. District Rule 2520 – Federally Mandated Operating Permits

This rule was recently amended to incorporate several administrative corrections, clarify rule language, and add procedures for implementing compliance schedules. The only amendments to this rule that will have an effect on current permit requirements are the corrections to Section 9 rule references, as described in the following table:

Old Rule Section	Corrected Rule Section
9.3	9.2
9.4	9.3
9.5	9.4

9.6	9.5
9.7	9.6
9.8	9.7
9.9	9.8
9.10	9.9
9.11	9.10
9.12	9.11
9.13	9.12
9.14	9.13
9.15	9.14
9.16	9.15
9.17	9.16
9.18	9.17
9.19	9.18

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

D. District Rule 4101 - Visible Emissions

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101.

Rule 4101 has many exemptions, one being an exemption for equipment used in agricultural operations necessary for the growing of crops or raising of fowl or animals. US EPA has indicated that this agricultural exemption must be removed or narrowed in scope and justified. The general exemption in Section 4.4 for agricultural sources was removed and agricultural operations are required to use the same feasible control measures that are used by other industries in the SJVAB to control visible emissions.

The amendments to this rule do not have any affect on current permit requirements and will therefore not be addressed in this evaluation.

E. District Rule 4306 Boilers, Steam Generators, Process Heaters - Phase 3

- a. S-44-2-22 40 MMBtu/hr Solvent Plant Heater
- b. S-44-5-12, 99.9 MMBtu/hr 15M Keystone Boiler

Asphalt offgas incinerator (Permit Unit S-44-145-8) is not considered a process heater and is not subject to requirements of this rule.

Section 5.1, NO_x and CO Emissions Limits

Category	NO _x Limit	CO Limit
D. Refinery units with a rated heat input greater than 5 MMBtu/hr up to 65 MMBtu/hr	30 ppmv or 0.036 lb/MMBtu	400 ppmv
E. Refinery units with a rated heat input greater than 65 MMBtu/hr up to 110 MMBtu/hr	25 ppmv or 0.031 lb/MMBtu	400 ppmv

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) condition 7 ensure compliance with requirements of this section.

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) condition 4 ensure compliance with requirements of this section.

Section 5.4, Monitoring Provisions

Section 5.4.2 requires that permit units subject to District Rule 4306, Section 5.1 emissions limits shall either install and maintain Continuous Emission Monitoring (CEM) equipment for NO_x, CO and O₂, or install and maintain APCO-approved alternate monitoring.

Applicant has elected to use pre-approved alternate monitoring scheme A (pursuant to District Policy SSP-1105), which requires that monitoring of NO_x, CO, and O₂ exhaust concentrations shall be conducted at least once per month (in which a source test is not performed) using a portable analyzer.

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) conditions 17 through 20 ensure compliance with requirements of the alternate monitoring:

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) conditions 17 through 20 ensure compliance with requirements of the alternate monitoring:

Section 5.5, Compliance Determination

Section 5.5.1 requires that the operator of any unit shall have the option of complying with either the applicable heat input (lb/MMBtu) emission limits or the concentration (ppmv) emission limits specified in Section 5.1.

Section 5.5.2 requires that 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.

Section 5.5.4 requires that for emissions monitoring pursuant to Sections 5.4.2, 5.4.2.1, and 6.3.1 using a portable NO_x analyzer as part of an APCO approved Alternate Emissions Monitoring System, emission readings 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.

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) conditions 10, 12, and 19 ensure compliance with requirements of these sections.

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) conditions 8, 10, and 19 ensure compliance with requirements of these sections.

Section 6.1, Recordkeeping

Section 6.1 requires that the records required by Sections 6.1.1 through 6.1.3 shall be maintained for five calendar years and shall be made available to the APCO upon request. Failure to maintain records or information contained in the records that demonstrate noncompliance with the applicable requirements of this rule shall constitute a violation of this rule.

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) condition 33 ensure compliance with requirements of this section.

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) condition 25 ensure compliance with requirements of this section.

Section 6.2, Test Methods

Section 6.2 specifies the District-approved source testing methods for the pollutants to be tested:

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) conditions 14, 15, and 16 ensure compliance with requirements of this section.

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) conditions 11, 12, and 13 ensure compliance with requirements of this section.

Section 6.3, Compliance Testing

Section 6.3.1 requires that this unit be tested to determine compliance with the applicable requirements of section 5.1 and 5.2.3 not less than once every 12 months. Upon demonstrating compliance on two consecutive compliance source tests, the following source test may be deferred for up to thirty-six months.

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) condition 11 ensures compliance with requirements of this section.

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) condition 9 ensure compliance with requirements of this section.

F. District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr

- a. S-44-2-22 40 MMBtu/hr Solvent Plant Heater
- b. S-44-5-12, 99.9 MMBtu/hr 15M Keystone Boiler

Asphalt offgas incinerator (Permit Unit S-44-145-8) is not considered a process heater and is not subject to requirements of this rule.

Section 5.1 would provide three main Advanced Emission Reduction Options for rule compliance:

- 1. Meet the specific NO_x emission and the particulate matter control requirements; or
- 2. Pay an annual emissions fee to the District and meet the particulate matter control requirements; or
- 3. Limit fuel input to comply with the low-use unit provision specified in Section 5.5.

The permittee has opted to pay annual emissions fee for the units subject to requirements of this section.

Section 5.4 would contain provisions to limit emissions of particulate matter (PM). To that end, units would be required to comply with one of the following three options:

- 1. Fire exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of these gases; or
- 2. Limit fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or
- 3. Install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight; or limit exhaust SO₂ to less than or equal to 9 ppmv corrected to 3.0 % O₂.

The permittee comply with first option since units burns PUC-regulated Natural Gas.

Source testing for Rule 4320 is not required for units participating in the emissions fee option.

Monitoring for Rule 4320 is not required for units participating in the emission fee option.

Records of fuel sulfur content of PUC quality natural gas must be recorded and shall be retained for a period of five years.

Operators complying with Sections 5.4.1.1 or 5.4.1.2 shall provide an annual fuel analysis to the District unless a more frequent sampling and reporting period is included in the Permit To Operate. Sulfur analysis shall be performed in accordance with the test methods in Section 6.2.

For 40 MMBtu/hr solvent plant heater (permit unit S-44-2-22) conditions 37, 38, and 39 ensure compliance with requirements of these sections.

For 99.9 MMBtu/hr Keystone Boiler (permit unit S-44-5-12) conditions 41, 42, and 43 ensure compliance with requirements of these sections.

G. District Rule 4455 – Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants

The purpose of this rule is to limit VOC emissions from leaking components at petroleum refineries, gas liquid processing facilities, and chemical plants. This rule was adopted in April 20, 2005 and replaced District Rule 4451 and 4452 which were repealed.

This section contains provisions for operating, inspection and re-inspection, maintenance and repair of leaking components, and component description. The rule specifies inspection frequency, leak standards, and allowable number or percent of component leaks (leak threshold) that are more effective than required by the repealed Rules 4451 and 4452.

Rule 4455 makes a distinction between operator inspections and District inspections. Deviations from the leak standard found during District inspections would still be candidates for NOVs. However, deviations found during quarterly operator inspections would be allowed if any leaks found during the operator inspection were repaired within the repair period allowed.

In Rule 4455, the leak threshold was changed to 1% or less for component types subject to repealed Rules 4451 and 4452. Facilities with pipe leaks are subject to a leak threshold of two leaking pipes total in Revised Rule 4455.

In Rule 4455, stakeholders would inspect all accessible operating pumps, compressors and pressure relief valves every 24 hours, except when stakeholders do not report to the facility for that given 24 hours.

Rule 4455 adds a provision to deal with components that are repeat-leakers. Components that have incurred five repair actions for major gas leak or major liquid leak, or combination of major gas or major liquid leaks within a continuous 12-month period would have to be replaced or retrofitted using Achieved-in-Practice BACT equipment, or the control technologies.

Process PRDs are required to have either electronic monitoring for real time continuous parameter monitoring or have telltale indicators installed for process PRDs where electronic parameter monitoring is not feasible.

Rule 4455 has a provision for controlling large releases of VOC from a process PRD. If a process PRD release is greater than 500 pounds of VOC in a continuous 24-hour period, the operator is required to conduct a failure analysis and implement corrective actions within 30 days to prevent reoccurrence of similar release.

A refinery processing greater than 20,000 barrels of crude oil per day is required to connect PRDs to an APCO-approved closed vent system after large releases of VOCs. These releases are a single release event of 2,000 pounds of VOC in a day or two release events within 5 years, with each release event being at least 500 pounds of VOC. Such releases indicate process control issues that have not been adequately addressed to prevent venting the PRD to atmosphere. It is only after these release events that the PRD would need to be connected to a closed vent system.

Rule 4455 requires that major components and critical components to be physically identified by affixing a tag, label, other methods approved by the APCO for purposes of inspection, repair and recordkeeping.

a. S-44-0-2 – Facility-Wide Requirements

- Conditions 44 through 70, on the proposed permit ensure compliance with requirements of this rule.

H. District Rule 4601 - Architectural Coatings

a. S-44-0-2 – Facility-Wide Requirements

The latest version of District Rule 4601 has not been SIP approved. Attachment D contains the streamlining of the SIP approved District Rule 4601 (10/31/01) to the current District Rule 4601 to show the current rule is as stringent if not more than the SIP approved version. Conditions 23 through 25 on the facility-wide permit (S-44-0-2) demonstrate compliance with the requirements of the latest version of this rule.

I. District Rule 4623 – Storage of Organic Liquids

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the storage of organic liquids. This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored. The rule was amended in May 19, 2005 to correct deficiencies cited by US EPA and incorporate recommendations made by industry stakeholders.

Section 4.4 states that tanks exclusively receiving and/or storing an organic liquid with a TVP less than 0.5 psia are exempt from all other requirements of the rule except for TVP and API gravity testing per Section 6.2, recordkeeping requirements per Section 6.3.6, test methods requirement per Section 6.4, and the compliance schedule per Section 7.2.

This facility process heavy crude oil with TVP less than 0.5 psia, therefore tanks at this facility are exempt from control requirements of this rule.

J. District Rule 4702 – Internal Combustion Engines – Phase 2

- a. S-44-14-2, -15-2, -141-3, -142-2, -165-2, and -166-2

The purpose of this rule 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. Section 4.3 provides that except for the administrative requirements of section 6.2.3, the requirements of this rule shall not apply to an engine that is: (a) operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood; (b) except for operations associated with (a), limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and (c) operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

Section 6.2.3 requires that an owner claiming an exemption under section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following: total hours of operation, the type of fuel used, the purpose for operating the

engine, for emergency standby engines, all hours of nonemergency and emergency operation shall be reported, and other support documentation necessary to demonstrate claim to the exemption.

Conditions 10, 12 through 15 of permit units S-44-14-2 & -15-2, conditions 4, 5, 7, 8, 9, and 10 of permit unit S-44-141-3, conditions 1, 2, 9, 10, and 11 of permit unit S-44-142-3, conditions 2, 3, 4, 7, 13, and 14 of permit units S-44-165-1 & -166-1 ensure compliance with requirements of this rule.

K. SJVUAPCD Regulation VIII - Fugitive Dust (PM10)

a. S-44-0-2 – Facility-Wide Requirements

These regulations contain requirements for the control of fugitive dust. These requirements apply to various sources, including construction, demolition, excavation, extraction, mining activities, outdoor storage piles, paved and unpaved roads. Compliance with these regulations will be required by permit conditions 29 through 34.

L. 40 CFR Part 60, Subpart J – Standards of Performance for Petroleum Refineries

a. S-44-2-22, Solvent Extraction Plant

The provisions of this subpart are applicable to fuel gas combustion devices – any equipment, such as process heaters, boilers and flares used to combust fuel gas, except facilities in which gases are combusted to produce sulfur or sulfuric acid. Subpart J was amended in June 24, 2008. These amendments are technical clarifications and corrections. For example, the definition of "fuel gas" to indicate that vapors collected and combusted to comply with certain wastewater and marine vessel loading provisions are not considered fuel gas. Consequently, these vapors are exempt from the sulfur dioxide (SO₂) treatment standard in 40 CFR 60.104(a)(1) and are not required to be monitored. Also certain monitoring exemptions are added for fuel gases that are identified as inherently low sulfur or demonstrated to contain a low sulfur content.

§60.104(a)(1) states that no owner or operator shall burn in any fuel gas combustion device any fuel gas that contains hydrogen sulfide (H₂S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this paragraph.

§60.105(a) requires that a continuous monitoring system shall be installed, calibrated, maintained, and operated by the owner or operator.

§60.105(a)(4), (a)(4)(iii), and (e)(3)(ii) states that instead of the SO₂ monitor, 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 performance evaluations for this H₂S monitor shall use Performance Specification 7. Method 11 shall be used for conducting the relative accuracy evaluations.

For 40 MMBtu/hr solvent plant heater, ATC S-44-2-23 removed refinery gas firing for this unit so requirements of rule are not applicable anymore.

M. 40 CFR Part 60, Subpart GGG – Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After January 4, 1983, and on or Before November 7, 2006

The provisions of this subpart apply to affected facilities in petroleum refineries. This subpart was last amended in November 16, 2007. The heading and 40 CFR 60.590(b) were revised to clarify that the subpart applies to sources that commence construction, reconstruction, or modification on or before November 7, 2006, and 40 CFR 60.590(d) was revised to exclude facilities subject to 40 CFR part 60, subpart VV. The amendments include a definition of “asphalt” and an exemption from the requirements for open-ended valves or lines (OEL) in 40 CFR 60.482–6(a) through (c) for OEL containing asphalt. The definition of “process unit” is comparable to the definition in 40 CFR part 60, subpart VV. The amendments also include a few technical corrections to fix references and other miscellaneous errors.

§60.592(a) requires that each owner or operator subject to the provisions of this subpart shall comply with the requirements of §§60.482-1 to 60.482-10.

a. S-44-0-2 – Facility-Wide Requirements

- Conditions 70 through 147 on the proposed permit ensure compliance with this rule.

N. 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

- S-44-14-2, 71 HP Diesel Fired Emergency IC Engine
- S-44-15-2, 91 HP Diesel Fired Emergency IC Engine
- S-44-141-3, 609 HP Diesel Fired Emergency IC Engine
- S-44-142-2, 65 HP Natural Gas Fired Emergency IC Engine

The requirements of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal

Combustion Engines, are applicable to owners and operators of a stationary RICE located at a major or area source of HAP emissions. This facility is not a major source of HAP emissions and is therefore, by definition, and area source of HAP emissions. Therefore, the requirements of this subpart are applicable to these engines. Permit units S-44-165-2 & -166-2 are non-road transportable engines, per CFR Title 40 Part 89. Therefore requirements of this subpart are not applicable to these non-road transportable engines.

The subject engines were installed before 2006; therefore, as defined by Section 63.65.90(iii), these engines can be classified as existing stationary RICE. In accordance with Section 63.6595, the emission limitations and operating limits for existing stationary RICE at an area source of HAP emissions do not become applicable until May 1, 2013 for compression ignited engines and October 19, 2013 for spark ignited engines. However, the requirements of this regulation will be included in this project for future reference.

§63.6603(a), states the owner or operator of an existing emergency stationary RICE located at an area source of HAP emissions must comply with the requirements listed in Table 2(d)(4) & (d)(5).

Table 2d - Requirements for Existing Stationary RICE Located at Area Sources:

For each	You must meet the following requirements, except during periods of startup	During periods of startup you must
4. Emergency stationary CI RICE and black start stationary CI RICE. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;	N/A
5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. ²	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	N/A
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	N/A

²If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

The following condition ensure compliance with the requirements of this section:

Permit units S-44-14-2, -15-2, & -141-3

- {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)]

Permit unit S-44-142-2

- {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)]

§63.6625(f), states the owner or operator of an existing emergency CI stationary RICE located at an area source of HAP emissions must install a non-resettable hour meter if one is not already installed.

Existing condition 9 of the requirements for permit units S-44-14-2 & -15-2, condition 4 of the requirements for permit unit S-44-141-3, and condition 2 of requirements for permit unit S-44-142-2 ensure compliance with requirements of this section.

§63.6625(f)(ii), states the owner or operator of an existing emergency CI stationary RICE located at an area source of HAP emissions may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

Existing condition 12 of the requirements for permit units S-44-14-2 & -15-2, condition 7 of the requirements for permit unit S-44-141-3, and condition 1 of requirements for permit unit S-44-142-2 ensure compliance with requirements of this section.

§63.6625(h), states the owner or operator of an existing stationary RICE must minimize the engine's time spent at idle during start and minimize the engine's startup time to a period needed for appropriate and safe loading of the

engine, not to exceed 30 minutes, after which time the emission standards applicable to all time other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

The Table 2d applicable to existing stationary RICE located at area sources of HAP emissions does not specify any startup requirements for emergency engines.

§63.6640(f) applies to emergency stationary RICE. The facility shall operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If the facility does not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

Operation of these engines is restricted by District Rule 4702 to maintenance, testing, and required regulatory purposes, and during emergency situations. Therefore requirement of this section is pre-empted by requirements of District Rule 4702.

The operator must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

Table 6 to Subpart ZZZZ of Part 63 - Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

For each	Complying with the requirement to	You must demonstrate continuous compliance by
9. Existing emergency and black start stationary RICE located at an area source of HAP	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Existing condition 10 of the requirements for permit units S-44-14-2 & -15-2, condition 5 of the requirements for permit unit S-44-141-3, and condition 9 of requirements for permit unit S-44-142-2 ensure compliance with requirements of this section.

§63.6655(a) states, the operator must keep the records described belows:

- (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (5) Records of actions 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.

§63.6655(d) states the operator must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies.

§63.6655(e) states the operator shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the facility operated and maintained the stationary RICE and after-treatment control device (if any) according to the facility's own maintenance plan if the following stationary RICE are owned or operated:

- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

§63.6655(f) states that an owner or operator of any of an existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

Existing condition 14 of the requirements for permit units S-44-14-2 & -15-2, condition 9 of the requirements for permit unit S-44-141-3, and condition 11 of requirements for permit unit S-44-142-2 ensure compliance with requirements of this section.

O. 40 CFR Part 64 - Compliance Assurance Monitoring

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

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have control device for the pollutant; these are devices such as Selective Catalytic Reduction (SCR), baghouses, and catalytic oxidizers; and

3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

a. Boilers, Steam Generators, and Process Heaters

Except for the solvent plant heater, all boilers, steam generators, process heaters, are dormant emissions units, which will require ATC modifications to be functional again. CAM applicability will be evaluated at the time of ATC issuance.

40 MMBtu/hr Solvent Plant Heater (permit unit S-44-2-22)

This permit unit is equipped low-NO_x burner and has emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. This unit is not subject to CAM for NO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these pollutants. LNB is considered as inherent equipment and not add-on controls.

99.9 MMBtu/hr 15M Keystone Boiler (permit unit S-44-5-12)

The boiler is equipped with a low NO_x burner with flue gas recirculation (FGR) to control NO_x emissions.

The steam and heat used in the various processes within the refinery is normally provided by a neighboring cogeneration facility (Oildale Energy S-73) under a contractual arrangement. While this permit unit is generally operated as standby equipment and provides process steam and heat to the facility's oil refining operation when the cogeneration facility is not in operation.

Since this unit is not operated daily on consistent basis, specifying daily CAM monitoring would have adverse effect. (unit needs to fired daily just to monitor control device performance)

Asphalt Offgas Incinerator (Permit Unit S-44-145-8)

This permit unit has emission limits for NO_x, SO_x, and CO but do not have add-on controls for these criteria pollutants. Therefore the emission unit is not subject to CAM for these pollutants. However, the emission unit has an emission limit for VOC and PM₁₀, and serves as an add-on control.

Pursuant to §40CFR64.2(b)(1)(i), emission units subject to section 111 or 112 standards promulgated after 11/15/90 are *Exempt emission limitations or standards*, since those standards have been and will be designed with monitoring that provides a reasonable assurance of compliance.

This emission is subject to New Source Performance Standards Subpart UU - Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture. This performance standard was amended by EPA on October.

17, 2000 (65 FR 61762). Therefore, this emission unit is exempt from CAM requirements.

b. Storage Tanks

This facility processes heavy crude oil with TVP less than 0.5 psia and tanks are not equipped with any controls for VOC emissions. Therefore storage tanks are not subject to 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 has not requested to utilize any model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant is not requesting any permit shield.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XI. ATTACHMENTS

- A. Proposed Renewed Title V Operating Permit
- B. Existing Title V Operating Permit
- C. Detailed Facility List
- D. Current District Rule SIP Comparison

ATTACHMENT A

Proposed Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-44-0-2

EXPIRATION DATE: 08/31/2007

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, 9.9.1 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: TRICOR REFINING, LLC
Location: 1134 MANOR STREET, BAKERSFIELD, CA
S-44-0-2 : Oct 17 2011 11:00AM -- SRANK

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

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

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 Rule 8021 and 8011] 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 Rule 8031 and 8011] 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 Rule 8041 and 8011] 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 Rule 8051 and 8011] 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 Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

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

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 Rule 8071 and Rule 8011] 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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
43. Operator shall maintain accurate monthly records of Gas-to-Oil Ratio (GOR) and API gravity of liquids produced showing that the facility exclusively processes, stores, or transfers black oil (as defined in 40 CFR 63.761). [40 CFR 63.10(b)] Federally Enforceable Through Title V Permit

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44. 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
45. 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
46. 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
47. 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
48. 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
49. 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
50. 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
51. 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
52. 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

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53. 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
54. 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
55. 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
56. 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
57. 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
58. 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
59. 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
60. 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

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61. 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
62. 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
63. 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
64. 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
65. 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
66. 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
67. 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

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68. 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
69. 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
70. 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
71. 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
72. 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
73. 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
74. 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
75. 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
76. 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
77. 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
78. 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 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
79. 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

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80. 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
81. 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
82. 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
83. 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
84. 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
85. 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
86. 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
87. 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
88. 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
89. 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

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90. 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
91. 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
92. 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
93. 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
94. 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
95. 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
96. 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
97. 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
98. 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
99. 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

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100. 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
101. 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
102. 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
103. 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
104. 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
105. 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
106. 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
107. 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
108. 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
109. 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
110. 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
111. 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
112. 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

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113. 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
114. 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
115. 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
116. 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
117. 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
118. 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
119. 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
120. 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
121. 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
122. 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
123. 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
124. 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

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125. 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
126. 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)]
127. 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
128. 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
129. 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
130. 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
131. 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

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132. 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
133. 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
134. 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
135. 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
136. 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
137. 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
138. 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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139. 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
140. 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
141. 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
142. 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
143. 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
144. 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
145. 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
146. 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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147. 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
148. 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
149. 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
150. 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
151. 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
152. 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
153. 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
154. 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
155. 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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156. 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
157. 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
158. 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
159. 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
160. 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
161. 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
162. On December 12, 2002, 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-1-17

EXPIRATION DATE: 08/31/2007

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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: NO_x - 0.036 lb/MMBtu, CO - 0.0840, VOC - 0.0055, PM₁₀ - 0.0076, or SO_x - 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: NO_x - 0.052 lb/MMBtu, CO - 0.0365, VOC - 0.0015, PM₁₀ - 0.0241, or SO_x - 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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The stack concentration of NO_x (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 NO_x 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 NO_x 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 NO_x or CO emission limits when testing not less than once every 36 months, compliance with NO_x 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 NO_x 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 NO_x 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: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (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

These terms and conditions are part of the Facility-wide Permit to Operate.

28. If the NO_x 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 NO_x, 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 NO_x 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 SO_x 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 SO_x 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 SO_x 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 (NO_x) 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 (NO_x) 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 NO_x 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 NO_x 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 NO_x 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 NO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

51. All units in a group for which representative units are source tested to for NO_x 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 NO_x 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-44-2-22

EXPIRATION DATE: 08/31/2007

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

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) 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 only be fired exclusively on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. Heater shall 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. Heater pilots (three pilots each rated at 65 scf/hr) may be fired on natural gas when gas turbine engine (S-73-2) is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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
7. Solvent plant heater emission rates shall not exceed any of the following: NO_x - 30 ppmv @ 3% O₂ or 0.036 lb/MMBtu, CO - 400 ppmv @ 3% O₂, VOC - 0.0055 lb/MMBtu, PM₁₀ - 0.0076 lb/MMBtu, or SO_x - 0.00285 lb/MMBtu. [District Rules 4306 and 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 the following: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District Rule 2201] Federally Enforceable Through Title V Permit
9. 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
10. 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
11. Source testing to measure NO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. 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
13. 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
14. NO_x 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
15. 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
16. 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
17. The permittee shall monitor and record the stack concentration of NO_x, 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 NO_x 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 NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x 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 and heating value, daily and annual fuel consumption, and annual emissions from heaters. [District Rule 2201] Federally Enforceable Through Title V Permit
22. 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
23. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

24. 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
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 (Last Amended December 19, 1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
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. [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. If the unit is fired on noncertified gaseous fuel and compliance with SO_x 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 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
31. Nitrogen oxide (NO_x) 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
32. 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
33. 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
34. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NO_x 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 NO_x emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit
35. 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
36. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-3-18

EXPIRATION DATE: 08/31/2007

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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-NO_x/MMBtu, 0.0840 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 lb-PM₁₀/MMBtu, or 0.0143 lb-SO_x /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-NO_x/MMBtu, 0.0365 lb-CO/MMBtu, 0.0015 lb-VOC/MMBtu, 0.0241 lb-PM₁₀/MMBtu, or 0.0518 lb-SO_x/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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 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

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

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-44-4-16

EXPIRATION DATE: 08/31/2007

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, #21, 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, #21, and #31 while dormant. [District Rules 2201, 4306, 4307] Federally Enforceable Through Title V Permit
3. 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
4. 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
5. 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
6. The standby heaters shall be fired solely on PUC regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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
9. Heaters shall 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
10. 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
11. Permittee shall notify the District in writing within 24 hours upon firing of heaters. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Refinery produced fuel gas shall be treated in H2S scrubber listed in S-44-13. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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
27. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

28. 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
29. Upon resuming operation of heaters #11 and #31, the following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (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
30. Upon resuming operation of heaters #11 and #31, if the NO_x 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
31. The permittee shall maintain records of the date and time of NO_x, 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
32. 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
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
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 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
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). 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
41. Nitrogen oxide (NO_x) 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 (NO_x) 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. 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
44. 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
45. 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
46. 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
47. 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
48. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-5-12

EXPIRATION DATE: 08/31/2007
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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: NO_x (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-SO_x/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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The stack concentration of NO_x (as NO₂), CO, and O₂ shall be measured at least on a monthly operating basis using District approved portable analyzers. [District Rules 4305, 5.4.2 and 4306, 5.4.2] Federally Enforceable Through Title V Permit
8. 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
9. Source testing to measure NO_x and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rules 4305, 6.3.1, 4306, 6.3.1 and 4351] Federally Enforceable Through Title V Permit
10. Source testing to measure NO_x 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, 6.3.1, 4306, 6.3.1 and 4351] Federally Enforceable Through Title V Permit
11. If permittee fails any compliance demonstration for NO_x or CO emission limits when testing not less than once every 36 months, compliance with NO_x and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 6.3.1, 4306, 6.3.1 and 4351] Federally Enforceable Through Title V Permit
12. 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 NO_x and CO source testing requirement. [District Rules 4305, 6.3.2, 4306, 6.3.2 and 4351] Federally Enforceable Through Title V Permit

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

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 following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (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, 4306, 6.2 and 4351, 6.2] Federally Enforceable Through Title V Permit
17. If the NO_x 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 Rules 4305, 5.4 and 4306, 5.4] Federally Enforceable Through Title V Permit
18. The permittee shall maintain records of the date and time of NO_x, 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, 4305, 5.4 and 4306, 5.4] Federally Enforceable Through Title V Permit
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

26. 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
27. When complying with SO_x 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
28. If the unit is fired on noncertified gaseous fuel and compliance with SO_x 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
29. 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
30. 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
31. Nitrogen oxide (NO_x) 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
32. Nitrogen oxide (NO_x) emissions shall not exceed 140 lb/hr, calculated as NO₂. [District Rules 4301, 5.2.2] 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO_x 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 NO_x 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
35. The following conditions must be met for representative unit(s) to be used to test for NO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. 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
37. 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
38. 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
39. Pursuant to Rule 4320, beginning in 2010 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
40. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-6-12

EXPIRATION DATE: 08/31/2007

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

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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 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: NO_x, 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: NO_x, 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 NO_x (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 NO_x 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 NO_x 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 NO_x and CO emission limits when testing not less than once every 36 months, compliance with NO_x 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 NO_x 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: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (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 NO_x 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 NO_x, 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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 SO_x 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 SO_x 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 SO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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 (NO_x) 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 (NO_x) 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-7-4

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-8-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-44-9-2

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

EQUIPMENT DESCRIPTION:

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-10-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-11-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-12-2

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

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007

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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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-13-19

EXPIRATION DATE: 08/31/2007

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 "SULFATREET" 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. [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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. If either the NO_x 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 NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x 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 NO_x 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. NO_x 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
These terms and conditions are part of the Facility-wide Permit to Operate.

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 SO_x 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

These terms and conditions are part of the Facility-wide Permit to Operate.

38. If the unit is fired on noncertified gaseous fuel and compliance with SO_x 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 NO_x 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-14-2

EXPIRATION DATE: 08/31/2007

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

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-15-2

EXPIRATION DATE: 08/31/2007

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

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-16-4

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-17-2

SECTION: 07 TOWNSHIP: 29S RANGE: 28E

EQUIPMENT DESCRIPTION:

24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-18-2

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

EQUIPMENT DESCRIPTION:

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801

EXPIRATION DATE: 08/31/2007
DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-19-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-20-2

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

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007

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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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-21-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-22-2

EXPIRATION DATE: 08/31/2007

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-44-25-2

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

EQUIPMENT DESCRIPTION:

374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-26-2

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

EQUIPMENT DESCRIPTION:

415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008

EXPIRATION DATE: 08/31/2007
DRAFT

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-44-27-3

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

EQUIPMENT DESCRIPTION:

473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017

EXPIRATION DATE: 08/31/2007

DRAFT

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-44-28-2

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

EQUIPMENT DESCRIPTION:

474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-44-29-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-30-2

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

EQUIPMENT DESCRIPTION:

708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-31-2

EXPIRATION DATE: 08/31/2007
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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-34-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-35-4

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-36-2

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

EQUIPMENT DESCRIPTION:

252,546 GALLON WASTEWATER STORAGE TANK #6001

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-37-2

EXPIRATION DATE: 08/31/2007
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

These terms and conditions are part of the Facility-wide Permit to Operate.

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**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-44-41-2

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

EQUIPMENT DESCRIPTION:

475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-44-42-2

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-44-2

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

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-44-45-2

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

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-44-46-2

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)

EXPIRATION DATE: 08/31/2007

DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-47-4

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

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007
DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-48-4

SECTION: 07 TOWNSHIP: 29S RANGE: 28E

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007

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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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-49-2

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

EQUIPMENT DESCRIPTION:

11,508 GALLON FIXED ROOF PETROLEUM STORAGE TANK #284

EXPIRATION DATE: 08/31/2007
DRAFT

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]

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-52-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-79-2

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

EQUIPMENT DESCRIPTION:

113,736 GALLON FIXED ROOF STORAGE TANK #2009

EXPIRATION DATE: 08/31/2007
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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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-133-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-134-2

EXPIRATION DATE: 08/31/2007
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-135-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-141-3

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-142-3

EXPIRATION DATE: 08/31/2007

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, 17 CCR 93115, 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 may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. The owner or operator shall maintain the required meter in proper operating condition. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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
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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-141-3

EXPIRATION DATE: 08/31/2007

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 and 17 CCR 93115] 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] 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 Rules 4701 and 4702, and 17 CCR 93115] 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, and 17 CCR 93115] Federally Enforceable Through Title V Permit
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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-142-3

EXPIRATION DATE: 08/31/2007

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 and District Rules 4701, and 4702] Federally Enforceable Through Title V Permit
2. The permittee shall operate a non-resettable elapsed operating time meter. The owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. The owner or operator shall maintain the required meter in proper operating condition. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rules 2201, 4701, and 4702]] 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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
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] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-143-2

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

EQUIPMENT DESCRIPTION:

1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-1

EXPIRATION DATE: 08/31/2007
DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-144-2

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

EQUIPMENT DESCRIPTION:

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

EXPIRATION DATE: 08/31/2007
DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-145-8

EXPIRATION DATE: 08/31/2007

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

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. Ongoing compliance with SOx emission limit shall be demonstrated by feedstock and finished product sulfur content analysis by District witnessed sample collection and asphalt throughput semiannually. [District NSR Rule] Federally Enforceable Through Title V Permit
18. After three consecutive years demonstrating compliance with SOx emission limit, feedstock and finished product sulfur content analysis and emissions calculations shall be performed annually. [District NSR Rule] Federally Enforceable Through Title V Permit
19. When feedstock slate changes, compliance with SOx emission limit shall be demonstrated by feedstock and finished product sulfur content analysis by District witnessed sample collection. [District NSR Rule] 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: feedstock & finished product sulfur content - ASTM Method D129 or D1552; 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
24. 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
25. 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
26. 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
27. 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
28. Permittee shall maintain records of daily asphalt throughput (tons) for each still and daily, quarterly, and annual gas use 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

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

29. 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
30. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-146-6

EXPIRATION DATE: 08/31/2007
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

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-148-4

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-149-4

EXPIRATION DATE: 08/31/2007
DRAFT

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-150-3

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-152-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-153-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-154-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-44-155-2

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

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

EXPIRATION DATE: 08/31/2007

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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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-156-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-157-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-158-2

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

EQUIPMENT DESCRIPTION:

10,000 BBL ASPHALT STORAGE TANK TK-10025

EXPIRATION DATE: 08/31/2007

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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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-160-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-161-2

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-165-2

EXPIRATION DATE: 08/31/2007

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

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-166-2

EXPIRATION DATE: 08/31/2007

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. NO_x 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

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

These terms and conditions are part of the Facility-wide Permit to Operate.

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ATTACHMENT B

Existing Title V Operating Permit



Permit to Operate

FACILITY: S-44

EXPIRATION DATE: 08/31/2007

LEGAL OWNER OR OPERATOR:
MAILING ADDRESS:

TRICOR REFINING, LLC
PO BOX 5877
BAKERSFIELD, CA 93388-5877

FACILITY LOCATION:

1134 MANOR STREET
BAKERSFIELD, CA

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.

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Executive Director / APCO

David Warner

Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: S-44-0-1

EXPIRATION DATE: 08/31/2007

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 (9/17/98). [District Rule 2010, 3.0 and 4.0; 2020; and County Rule 201 (in all eight counties in the San Joaquin Valley)] 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 9.12.1] 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) (Permits Required) 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, 9.5.1] 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, 9.5.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: TRICOR REFINING, LLC
Location: 1134 MANOR STREET, BAKERSFIELD, CA
S-44-0-1 : Oct 13 2011 4:07PM -- SRANK

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, 9.6.1] 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. [District Rules 2520, 9.6.2 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, 9.8] 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, 9.9.2] 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, 9.9.3] 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, 9.9.4] 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, 9.9.5] 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, 9.10] 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, 9.14.2.1] 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, 9.14.2.2] 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, 9.14.2.3] Federally Enforceable Through Title V Permit
21. Upon the request of an authorized representative of the District, a permittee shall collect, have collected, or allow the APCD to monitor or sample, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.14.2.4] 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 (12/17/92), by using EPA method 9. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repackage such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. Specialty Coating Limitations: No person shall apply, sell, solicit, or offer for sale any specialty architectural coating listed in the Table of Standards (District Rule 4601, Table 1 and Table 2), nor manufacture, blend, or repackage such coating for use within the District, which contains VOCs in excess of the specified limits after the corresponding date listed in Table 1 (grams of VOC per liter of coating as applied less water and exempt compounds, excluding any colorant added to tint bases) and in Table 2 (grams of VOC per liter of material), except as provided in Section 5.3 of Rule 4601. [District Rule 4601, 5.2] Federally Enforceable Through Title V Permit
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5] Federally Enforceable Through Title V Permit
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2. [District Rule 4601, 6.1 and 6.2] Federally Enforceable Through Title V Permit
28. 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, 9.14.1 and 10.0] Federally Enforceable Through Title V Permit
29. 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
30. 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
31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020 unless specifically exempted under section 4 of Rule 8020. [District Rule 8020] Federally Enforceable Through Title V Permit
32. Outdoor handling, storage, and transport of any bulk material shall comply with the requirements of Rule 8031 (11/15/01), unless specifically exempted under section 4.0 of Rule 8031. [District Rule 8031] Federally Enforceable Through Title V Permit
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after December 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 unless specifically exempted under section 4 of Rule 8060. [District Rule 8060] Federally Enforceable Through Title V Permit
34. 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
These terms and conditions are part of the Facility-wide Permit to Operate.

35. 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, 9.17] Federally Enforceable Through Title V Permit
36. 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
37. 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 permit shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
38. Compliance with permit conditions in the Title V permit shall be deemed 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), 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
39. Compliance with permit conditions in the Title V permit shall be deemed 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 (10/31/01); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8061 (11/15/01); A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. 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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
42. Operator shall maintain accurate monthly records of Gas-to-Oil Ratio (GOR) and API gravity of liquids produced showing that the facility exclusively processes, stores, or transfers black oil (as defined in 40 CFR 63.761). [40 CFR 63.10(b)] Federally Enforceable Through Title V Permit
43. Facility shall comply with all applicable requirements regarding preparation and implementation of a risk management plan (RMP) by August 31, 1999, and shall abide by all applicable sections of 40 CFR Part 68. [40 CFR Part 68] Federally Enforceable Through Title V Permit
44. The owner or operator shall maintain records of type of fluids used in each process in the facility. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
45. The owner or operator shall maintain records of the source of the crude oil received by the facility. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
46. 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 degrees centigrade 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 degrees centigrade 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 degrees centigrade as determined by ASTM D 86. [40 CFR 60.485(e) and 60.593(d)] Federally Enforceable Through Title V Permit
47. 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
48. 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

49. Pressure relief valves in light liquid or heavy liquid service shall not leak in excess of 10,000 ppm above background when measured in the plane at the centroid of any atmospheric vent with a portable analyzer in accordance with EPA Method 21. [District Rule 4451 and 40 CFR 60.482-8] Federally Enforceable Through Title V Permit
50. Pressure relief valves in light liquid shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every three (3) months. [District Rule 4451] Federally Enforceable Through Title V Permit
51. Pressure relief valves in light liquid or heavy liquid service shall be monitored within 5 days with a portable analyzer in accordance with EPA Method 21 if evidence of a potential leak is found by visual, audible, olfactory, or any other detection methods. The first attempt at repair shall be made no later than 5 calendar days after it is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [District Rule 40 CFR 60.482-8] Federally Enforceable Through Title V Permit
52. Within three (3) days after any pressure relief valve in light liquid vents to the atmosphere the operator shall inspect with a portable analyzer in accordance with EPA Method 21 any such pressure relief valve and shall repair any leak. [District Rule 4451] Federally Enforceable Through Title V Permit
53. Within 15 days after detection any pressure relief valve in light liquid or heavy liquid service found to leak shall be repaired or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25. [District Rule 4451] Federally Enforceable Through Title V Permit
54. If a pressure relief valve in light liquid or heavy liquid service is found to leak and cannot be repaired to a no-leak condition without requiring the shutdown of essential refinery operations, the following repair schedule shall apply: If the leak rate is less than ten (10) drops per minute the APCO shall be notified of the expected date of repair, not to exceed one (1) year or the date of the next process unit turnaround whichever is less, for each valve, pressure relief valve, flange, threaded connection, and process drain, and the actual date of repair for each valve, pressure relief valve, flange, threaded connection, and process drain. If the leak rate is greater than nine (9) drops per minute or 10,000 ppm measured using EPA Method 21, the APCO shall be notified of an emergency repair, within 15 days after detection, to reduce the leak to less than ten (10) drops per minute or 10,000 ppm as methane measured using EPA Method 21, or the venting, within 30 days after detection, of the emission to a flare or vapor control system that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25, or a demonstration, with 30 days after detection, that the repair schedules are infeasible. The demonstration shall include documentation that the component is an essential device and that no vapor control device that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 exists. [District Rule 4451] Federally Enforceable Through Title V Permit
55. Valves in heavy liquid service shall be monitored within 5 days with a portable hydrocarbon detection instrument if evidence of a potential leak is found by visual, audible, olfactory, or any other detection methods. [40 CFR 60.482-8] Federally Enforceable Through Title V Permit
56. Valves in light liquid or heavy liquid service shall not leak liquid organic compounds at a rate of more than three (3) drops per minute or leak in excess of 10,000 ppm above background when measured with a portable analyzer in accordance with EPA Method 21. [District Rule 4451, 40 CFR 60.482-7, 60.482-8] Federally Enforceable Through Title V Permit
57. Each valve in light liquid service shall be monitored monthly in accordance with EPA Method 21. [District Rule 4451 and 40 CFR 60.482-7] Federally Enforceable Through Title V Permit
58. When a leak is detected, valves in light liquid and heavy liquid service shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [District Rule 4451 and 40 CFR 60.482-7, 60.482-8] Federally Enforceable Through Title V Permit

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59. Any valve in light liquid service for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months. [District Rule 4451 and 40 CFR 60.482-7] Federally Enforceable Through Title V Permit
60. For valves in light liquid service, an owner or operator must notify the District that the owner or operator has elected to comply with the following alternative work practice. After two (2) consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0 percent, an owner or operator may begin to skip 1 of the quarterly leak detection periods. After five (5) consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0 percent, an owner or operator may begin to skip three (3) of the quarterly leak detection periods. If the percent of valves leaking is greater than 2.0 percent, the owner or operator shall return to monthly monitoring but can again elect to use this alternative work practice. [District Rule 4451 and 40 CFR 60.483] Federally Enforceable Through Title V Permit
61. 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 40 CFR 60.482-10. 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(c)] Federally Enforceable Through Title V Permit
62. All flanges, and threaded connectors shall not leak liquid organic compounds at a rate of more than three (3) drops per minute or leak in excess of 10,000 ppm above background when measured using EPA Method 21. [District Rule 4451 and 40 CFR 60.482-7] Federally Enforceable Through Title V Permit
63. Flanges in light liquid service shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every 12 months. [District Rule 4451] Federally Enforceable Through Title V Permit
64. Threaded connectors in light liquid service shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every three months. [District Rule 4451] Federally Enforceable Through Title V Permit
65. All flanges and threaded connectors shall be monitored within 5 days with a portable hydrocarbon detection instrument if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method. When a leak is detected, it shall be repaired as practicable, but not later than 15 calendar days after it is detected. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [40 CFR 60.482-8(a)(c)] Federally Enforceable Through Title V Permit
66. Within 15 days after detection any flange and threaded connection in light liquid service found to leak shall be repaired or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25. [District Rule 4451, and 40 CFR 60.482-4] Federally Enforceable Through Title V Permit
67. Every leaking valve, flange, threaded connection, process drains, and pressure relief valve in light liquid service shall be affixed with a record of inspection which shall bear a legible record of all inspections for at least a fifteen month period or coded with the records kept in a centralized location. [District Rule 4451, 5.1.5] Federally Enforceable Through Title V Permit
68. Any valve, flanges, threaded connections, process drains, pumps, compressors, and pressure relief valves for which a leak is detected shall be identified by attaching a weatherproof and readily visible identification, marked with the equipment identification number. The identification on equipment except for a valve, may be removed after it has been repaired. The identification on a valve may be removed after it has been monitored for 2 successive months and no leak has been detected during those 2 months. [District Rule 4451, 4452 and 40 CFR 60.486] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
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69. When a leak is detected from valves, pressure relief valves, flanges, threaded connection, process drains, pumps, and compressors, the following information shall be recorded in a log and kept in a readily accessible location: the instrument and operator identification numbers and the equipment identification number; the date the leak was detected, emission level (ppm) of leak, method of detection and the dates of each attempt to repair the leak; Repair methods applied in each attempt to repair the leak; Emission level (ppm) after each repair attempt; "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak; the signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown; the expected date of successful repair of the leak if a leak is not repaired within 15 days; dates of process unit shutdown that occur while the equipment is unrepaired; the date of successful repair of the leak and emission level of recheck. In addition the following information shall be recorded in a log and shall be kept in a readily accessible location: a list of identification numbers for equipment subject to the requirements of this subpart GGG; a list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 40 CFR 60.482-7(f); a list of identification numbers for valves that are designated as unsafe-to-monitor, an explanation for each valve stating why the valve is unsafe-to-monitor, and the plan for monitoring each valve; 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; total number of components inspected, and total number and percentage of leaking components found. Copies of inspection log and support information shall be retained by the operator for a minimum of five (5) years after the date of an entry and be made available upon request to District personnel. [District Rule 4451, 4452, 2520, 9.4.2 and 40 CFR 60.486(c)] Federally Enforceable Through Title V Permit
70. If a valve, pressure relief valve, flange, threaded connection, and process drain in light liquid service is found to leak and cannot be repaired to a no-leak condition without requiring the shutdown of essential refinery operations, the following repair schedule shall apply: If the leak rate is less than ten (10) drops per minute the APCO shall be notified of the expected date of repair, not to exceed one (1) year or the date of the next process unit turnaround whichever is less, for each valve, pressure relief valve, flange, threaded connection, and process drain, and the actual date of repair for each valve, pressure relief valve, flange, threaded connection, and process drain. If the leak rate is greater than nine (9) drops per minute or 10,000 ppm measured using EPA Method 21, the APCO shall be notified of an emergency repair, within 15 days after detection, to reduce the leak to less than ten (10) drops per minute or 10,000 ppm as methane measured using EPA Method 21, or the venting, within 30 days after detection, of the emission to a flare or vapor control system that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25, or a demonstration, with 30 days after detection, that the repair schedules are infeasible. The demonstration shall include documentation that the component is an essential device and that no vapor control device that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 exists. [District Rule 4451] Federally Enforceable Through Title V Permit
71. Efficiency of VOC destruction device shall be measured by EPA Method 25, 25a, or 25b, as applicable. [District Rule 4451, 6.3.2] Federally Enforceable Through Title V Permit
72. Leak detection shall be performed with a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rule 4451, 6.3.4] Federally Enforceable Through Title V Permit
73. Except during pressure releases, pressure relief devices in gas/vapor service, contains process fluid that is in the gaseous state at operating conditions, shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background as determined by EPA Method 21. [40 CFR 60.482-4] Federally Enforceable Through Title V Permit
74. After each pressure release, the pressure relief device in gas/vapor service 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. 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. [40 CFR 60.482-4] Federally Enforceable Through Title V Permit
75. 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

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76. 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
77. 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
78. 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
79. 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
80. 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
81. 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
82. 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
83. Each sampling connection system shall be equipped with a closed-purged, closed-loop, or closed-vent system. Each closed-purge, closed-loop, or closed-vent system shall return the purged process fluid directly to the process line; or collect and recycle the purged process fluid to a process; or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of 40 CFR 60.482-10. [40 CFR 60.482-5] Federally Enforceable Through Title V Permit
84. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. 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(a)(b)] Federally Enforceable Through Title V Permit
85. Operator shall not use any compressor unless such compressor does not leak. A leak is a reading of methane on a portable hydrocarbon detection instrument which is in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the outer end of the rotating shaft seal interface; or drip liquid VOCs at a rate of more than three (3) drops per minute. [District Rule 4452 and 40 CFR 60.482-3] Federally Enforceable Through Title V Permit

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86. Compressor seal fluid system shall not leak in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source with a portable hydrocarbon detection instrument calibrated with methane; or drip liquid VOCs at a rate of more than three (3) drops per minute. [District Rule 4452] Federally Enforceable Through Title V Permit
87. Compressors shall be inspected for leaks with a portable analyzer in accordance with EPA Method 21 at least once every three (3) months. Compressor seal system leaks shall be repaired within 15 calendar days after it is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [District Rule 4452 and 40 CFR 60.482-3] Federally Enforceable Through Title V Permit
88. Compressors (except for compressors in hydrogen service as demonstrated by the owner or operator in accordance with 40 CFR 60.593(b)) shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere. The compressor seal system 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 that is connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; or equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. [District Rule 4452 and 40 CFR 60.482-3] Federally Enforceable Through Title V Permit
89. The compressor seal barrier fluid system shall be in heavy liquid service or shall not be in VOC service. Compressor seal barrier fluid system 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. A leak is detected if the sensor indicates failure of the seal system, the barrier fluid system or both. [40 CFR 60.482-3(c)(d)] Federally Enforceable Through Title V Permit
90. Pumps in light liquid and heavy liquid service shall not drip liquid organic compounds from the pump seal or leak in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source with a portable analyzer in accordance with EPA Method 21. [District Rule 4452, 40 CFR 60.482-2, 60.482-8] Federally Enforceable Through Title V Permit
91. Pumps in heavy liquid service shall be monitored within 5 days with a portable analyzer in accordance with EPA Method 21 if evidence of a potential leak is found by visual, audible, olfactory, or any other detection methods. [40 CFR 60.482-8] Federally Enforceable Through Title V Permit
92. Operator shall not use any pump in light liquid service unless such pump does not leak. A leak is a reading of methane on a portable hydrocarbon detection instrument which is in excess of 10,000 ppm above background when measured at the outer surface of the pump shaft and seal interface; or drip liquid VOCs at a rate of more than three (3) drops per minute. [District Rule 4452 and 40 CFR 60.482-2] Federally Enforceable Through Title V Permit
93. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal and each pump in light liquid service shall be monitored monthly with a portable hydrocarbon detection instrument in accordance with EPA Method 21. When a pump leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [District Rule 4452 and 40 CFR 60.482-2] Federally Enforceable Through Title V Permit
94. If the leaking pump in light liquid service is essential and cannot be repaired within 15 days after detection, one (1) of the following actions shall be taken: replace the leaking pump and inspect for leaks within three days after detection; vent emissions to a vapor recovery device that is at least 95 percent efficient as measured by EPA Method 25, or to a flare that satisfies the requirements of 40 CFR 60.18; or repair the pump to eliminate the leak during the next process unit shutdown, but in no case later than one (1) year from the date of the original leak detection. [District Rule 4452 and 40 CFR 60.482-2] Federally Enforceable Through Title V Permit

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95. Pumps in heavy liquid service shall be repaired as soon as practicable when a leak is detected, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [40 CFR 60.482-8] Federally Enforceable Through Title V Permit
96. Process drains in light liquid service shall not leak in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter of the potential source with a portable analyzer in accordance with EPA Method 21. [District Rule 4451] Federally Enforceable Through Title V Permit
97. Process drains in light liquid service shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every 12 months. [District Rule 4451] Federally Enforceable Through Title V Permit
98. 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
99. Each owner or operator shall submit all semiannual reports to the District with the following information: a) process unit identification, b) number of valves subject to 40 CFR 60.482-7, c) number of pumps subject to 40 CFR 60.482-2, d) number of compressors subject to the requirements of 40 CFR 60.482-3. Each owner or operator shall submit semiannual reports to the District with the following information: a) process unit identification, b) for each month during the semiannual reporting period: number of valves, pumps, compressors for which leaks were detected; number of valves, pumps, compressors for which leaks were not repaired; the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible; dates of process unit shutdowns which occurred within the semiannual reporting period; revisions or changes to items reported in the initial semiannual report. [40 CFR 60.487(c)] Federally Enforceable Through Title V Permit
100. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4451 (Amended December 17, 1992) and 4452 (Amended December 17, 1992) and 40 CFR Subpart GGG. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
101. On December 31, 2002, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, 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-44-1-16

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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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: NO_x - 0.036 lb/MMBtu, CO - 0.0840, VOC - 0.0055, PM₁₀ - 0.0076, or SO_x - 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: NO_x - 0.052 lb/MMBtu, CO - 0.0365, VOC - 0.0015, PM₁₀ - 0.0241, or SO_x - 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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The stack concentration of NO_x (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 NO_x 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 NO_x 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 NO_x or CO emission limits when testing not less than once every 36 months, compliance with NO_x 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 NO_x 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 NO_x 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: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (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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28. If the NO_x 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 NO_x, 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 NO_x 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

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41. When complying with SO_x 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 SO_x 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 SO_x 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 (NO_x) 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 (NO_x) 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 NO_x 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 NO_x 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 NO_x 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 NO_x 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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51. All units in a group for which representative units are source tested to for NO_x 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 NO_x 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
53. 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 degrees centigrade 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 degrees centigrade 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 degrees centigrade as determined by ASTM D 86. [40 CFR 60.485(e) and 60.593(d)] Federally Enforceable Through Title V Permit
54. 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
55. 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
56. Pressure relief valves in light liquid or heavy liquid service shall not leak in excess of 10,000 ppm above background when measured in the plane at the centroid of any atmospheric vent with a portable analyzer in accordance with EPA Method 21. [District Rule 4451 and 40 CFR 60.482-8] Federally Enforceable Through Title V Permit
57. Pressure relief valves in light liquid services shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every three (3) months. [District Rule 4451] Federally Enforceable Through Title V Permit
58. Pressure relief valves in light liquid or heavy liquid service shall be monitored within 5 days with a portable analyzer in accordance with EPA Method 21 if evidence of a potential leak is found by visual, audible, olfactory, or any other detection methods. The first attempt at repair shall be made no later than 5 calendar days after it is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [District Rule 40 CFR 60.482-8] Federally Enforceable Through Title V Permit
59. Within three (3) days after any pressure relief valve in light liquid vents to the atmosphere the operator shall inspect with a portable analyzer in accordance with EPA Method 21 any such pressure relief valve and shall repair any leak. [District Rule 4451] Federally Enforceable Through Title V Permit
60. Within 15 days after detection any pressure relief valve in light liquid or heavy liquid service found to leak shall be repaired or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25. [District Rule 4451] Federally Enforceable Through Title V Permit

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61. If a pressure relief valve in light liquid or heavy liquid service is found to leak and cannot be repaired to a no-leak condition without requiring the shutdown of essential refinery operations, the following repair schedule shall apply: If the leak rate is less than ten (10) drops per minute the APCO shall be notified of the expected date of repair, not to exceed one (1) year or the date of the next process unit turnaround whichever is less, for each valve, pressure relief valve, flange, threaded connection, and process drain, and the actual date of repair for each valve, pressure relief valve, flange, threaded connection, and process drain. If the leak rate is greater than nine (9) drops per minute or 10,000 ppm measured using EPA Method 21, the APCO shall be notified of an emergency repair, within 15 days after detection, to reduce the leak to less than ten (10) drops per minute or 10,000 ppm as methane measured using EPA Method 21, or the venting, within 30 days after detection, of the emission to a flare or vapor control system that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25, or a demonstration, with 30 days after detection, that the repair schedules are infeasible. The demonstration shall include documentation that the component is an essential device and that no vapor control device that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 exists. [District Rule 4451] Federally Enforceable Through Title V Permit
62. Valves in heavy liquid service shall be monitored within 5 days with a portable hydrocarbon detection instrument if evidence of a potential leak is found by visual, audible, olfactory, or any other detection methods. [40 CFR 60.482-8] Federally Enforceable Through Title V Permit
63. Valves in light liquid or heavy liquid service shall not leak liquid organic compounds at a rate of more than three (3) drops per minute or leak in excess of 10,000 ppm above background when measured with a portable analyzer in accordance with EPA Method 21. [District Rule 4451, 40 CFR 60.482-7, 60.482-8] Federally Enforceable Through Title V Permit
64. Each valve in light liquid service shall be monitored monthly in accordance with EPA Method 21. [District Rule 4451 and 40 CFR 60.482-7] Federally Enforceable Through Title V Permit
65. When a leak is detected, valves in light liquid and heavy liquid service shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [District Rule 4451 and 40 CFR 60.482-7, 60.482-8] Federally Enforceable Through Title V Permit
66. Any valve in light liquid service for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months. [District Rule 4451 and 40 CFR 60.482-7] Federally Enforceable Through Title V Permit
67. For valves in light liquid service, an owner or operator must notify the District that the owner or operator has elected to comply with the following alternative work practice. After two (2) consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0 percent, an owner or operator may begin to skip 1 of the quarterly leak detection periods. After five (5) consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0 percent, an owner or operator may begin to skip three (3) of the quarterly leak detection periods. If the percent of valves leaking is greater than 2.0 percent, the owner or operator shall return to monthly monitoring but can again elect to use this alternative work practice. [District Rule 4451 and 40 CFR 60.483] Federally Enforceable Through Title V Permit
68. 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 40 CFR 60.482-10. 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(c)] Federally Enforceable Through Title V Permit

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69. All flanges, and threaded connectors shall not leak liquid organic compounds at a rate of more than three (3) drops per minute or leak in excess of 10,000 ppm above background when measured using EPA Method 21. [District Rule 4451 and 40 CFR 60.482-7] Federally Enforceable Through Title V Permit
70. Flanges in light liquid service shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every 12 months. [District Rule 4451] Federally Enforceable Through Title V Permit
71. Threaded connectors in light liquid service shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every three months. [District Rule 4451] Federally Enforceable Through Title V Permit
72. All flanges and threaded connectors shall be monitored within 5 days with a portable hydrocarbon detection instrument if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method. When a leak is detected, it shall be repaired as practicable, but not later than 15 calendar days after it is detected. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [40 CFR 60.482-8(a)(c)] Federally Enforceable Through Title V Permit
73. Within 15 days after detection any flange and threaded connection in light liquid service found to leak shall be repaired or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25. [District Rule 4451, and 40 CFR 60.482-4] Federally Enforceable Through Title V Permit
74. Every leaking valve, flange, threaded connection, process drains, and pressure relief valve in light liquid service shall be affixed with a record of inspection which shall bear a legible record of all inspections for at least a fifteen month period or coded with the records kept in a centralized location. [District Rule 4451, 5.1.5] Federally Enforceable Through Title V Permit
75. Any valve, flanges, threaded connections, process drains, pumps, compressors, and pressure relief valves for which a leak is detected shall be identified by attaching a weatherproof and readily visible identification, marked with the equipment identification number. The identification on equipment except for a valve, may be removed after it has been repaired. The identification on a valve may be removed after it has been monitored for 2 successive months and no leak has been detected during those 2 months. [District Rule 4451, 4452 and 40 CFR 60.486] Federally Enforceable Through Title V Permit
76. When a leak is detected from valves, pressure relief valves, flanges, threaded connection, process drains, pumps, and compressors, the following information shall be recorded in a log and kept in a readily accessible location: the instrument and operator identification numbers and the equipment identification number; the date the leak was detected, emission level (ppm) of leak, method of detection and the dates of each attempt to repair the leak; Repair methods applied in each attempt to repair the leak; Emission level (ppm) after each repair attempt; "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak; the signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown; the expected date of successful repair of the leak if a leak is not repaired within 15 days; dates of process unit shutdown that occur while the equipment is unrepaired; the date of successful repair of the leak and emission level of recheck. In addition the following information shall be recorded in a log and shall be kept in a readily accessible location: a list of identification numbers for equipment subject to the requirements of this subpart GGG; a list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 40 CFR 60.482-7(f); a list of identification numbers for valves that are designated as unsafe-to-monitor, an explanation for each valve stating why the valve is unsafe-to-monitor, and the plan for monitoring each valve; 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; total number of components inspected, and total number and percentage of leaking components found. Copies of inspection log and support information shall be retained by the operator for a minimum of five (5) years after the date of an entry and be made available upon request to District personnel. [District Rule 4451, 4452, 2520, 9.4.2 and 40 CFR 60.486(c)] Federally Enforceable Through Title V Permit

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77. If a valve, pressure relief valve, flange, threaded connection, and process drain in light liquid service is found to leak and cannot be repaired to a no-leak condition without requiring the shutdown of essential refinery operations, the following repair schedule shall apply: If the leak rate is less than ten (10) drops per minute the APCO shall be notified of the expected date of repair, not to exceed one (1) year or the date of the next process unit turnaround whichever is less, for each valve, pressure relief valve, flange, threaded connection, and process drain, and the actual date of repair for each valve, pressure relief valve, flange, threaded connection, and process drain. If the leak rate is greater than nine (9) drops per minute or 10,000 ppm measured using EPA Method 21, the APCO shall be notified of an emergency repair, within 15 days after detection, to reduce the leak to less than ten (10) drops per minute or 10,000 ppm as methane measured using EPA Method 21, or the venting, within 30 days after detection, of the emission to a flare or vapor control system that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25, or a demonstration, with 30 days after detection, that the repair schedules are infeasible. The demonstration shall include documentation that the component is an essential device and that no vapor control device that satisfies the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 exists. [District Rule 4451] Federally Enforceable Through Title V Permit
78. Efficiency of VOC destruction device shall be measured by EPA Method 25, 25a, or 25b, as applicable. [District Rule 4451, 6.3.2] Federally Enforceable Through Title V Permit
79. Leak detection shall be performed with a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rule 4451, 6.3.4] Federally Enforceable Through Title V Permit
80. Except during pressure releases, pressure relief devices in gas/vapor service, contains process fluid that is in the gaseous state at operating conditions, shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background as determined by EPA Method 21. [40 CFR 60.482-4] Federally Enforceable Through Title V Permit
81. After each pressure release, the pressure relief device in gas/vapor service 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. 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. [40 CFR 60.482-4] Federally Enforceable Through Title V Permit
82. 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
83. 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
84. 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
85. 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

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86. 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
87. 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
88. 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
89. 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
90. Each sampling connection system shall be equipped with a closed-purged, closed-loop, or closed-vent system. Each closed-purge, closed-loop, or closed-vent system shall return the purged process fluid directly to the process line; or collect and recycle the purged process fluid to a process; or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of 40 CFR 60.482-10. [40 CFR 60.482-5] Federally Enforceable Through Title V Permit
91. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. 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(a)(b)] Federally Enforceable Through Title V Permit
92. Operator shall not use any compressor unless such compressor does not leak. A leak is a reading of methane on a portable hydrocarbon detection instrument which is in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the outer end of the rotating shaft seal interface; or drip liquid VOCs at a rate of more than three (3) drops per minute. [District Rule 4452 and 40 CFR 60.482-3] Federally Enforceable Through Title V Permit
93. Compressor seal fluid system shall not leak in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source with an portable hydrocarbon detection instrument calibrated with methane; or drip liquid VOCs at a rate of more than three (3) drops per minute. [District Rule 4452] Federally Enforceable Through Title V Permit
94. Compressors shall be inspected for leaks with a portable analyzer in accordance with EPA Method 21 at least once every three (3) months. Compressor seal system leaks shall be repaired within 15 calendar days after it is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [District Rule 4452 and 40 CFR 60.482-3] Federally Enforceable Through Title V Permit
95. Compressors (except for compressors in hydrogen service as demonstrated by the owner or operator in accordance with 40 CFR 60.593(b)) shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere. The compressor seal system 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 that is connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; or equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. [District Rule 4452 and 40 CFR 60.482-3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

96. The compressor seal barrier fluid system shall be in heavy liquid service or shall not be in VOC service. Compressor seal barrier fluid system 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. A leak is detected if the sensor indicates failure of the seal system, the barrier fluid system or both. [40 CFR 60.482-3(c)(d)] Federally Enforceable Through Title V Permit
97. Pumps in light liquid and heavy liquid service shall not drip liquid organic compounds from the pump seal or leak in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source with a portable analyzer in accordance with EPA Method 21. [District Rule 4452 ,40 CFR 60.482-2, 60.482-8] Federally Enforceable Through Title V Permit
98. Pumps in heavy liquid service shall be monitored within 5 days with a portable analyzer in accordance with EPA Method 21 if evidence of a potential leak is found by visual, audible, olfactory, or any other detection methods. [40 CFR 60.482-8] Federally Enforceable Through Title V Permit
99. Operator shall not use any pump in light liquid service unless such pump does not leak. A leak is a reading of methane on a portable hydrocarbon detection instrument which is in excess of 10,000 ppm above background when measured at the outer surface of the pump shaft and seal interface; or drip liquid VOCs at a rate of more than three (3) drops per minute. [District Rule 4452 and 40 CFR 60.482-2] Federally Enforceable Through Title V Permit
100. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal and each pump in light liquid service shall be monitored monthly with a portable hydrocarbon detection instrument in accordance with EPA Method 21. When a pump leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [District Rule 4452 and 40 CFR 60.482-2] Federally Enforceable Through Title V Permit
101. If the leaking pump in light liquid service is essential and cannot be repaired within 15 days after detection, one (1) of the following actions shall be taken: replace the leaking pump and inspect for leaks within three days after detection; vent emissions to a vapor recovery device that is at least 95 percent efficient as measured by EPA Method 25, or to a flare that satisfies the requirements of 40 CFR 60.18; or repair the pump to eliminate the leak during the next process unit shutdown, but in no case later than one (1) year from the date of the original leak detection. [District Rule 4452 and 40 CFR 60.482-2] Federally Enforceable Through Title V Permit
102. Pumps in heavy liquid service shall be repaired as soon as practicable when a leak is detected, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempt at repair include, but are not limited to the following best practices where practicable: tightening of bonnet bolts; replacement of bonnet bolts; tightening of packing gland nuts; injection of lubricant into lubricated packing. [40 CFR 60.482-8] Federally Enforceable Through Title V Permit
103. Process drains in light liquid service shall not leak in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter of the potential source with a portable analyzer in accordance with EPA Method 21. [District Rule 4451] Federally Enforceable Through Title V Permit
104. Process drains in light liquid service shall be inspected for leakage with a portable analyzer in accordance with EPA Method 21 at least once every 12 months. [District Rule 4451] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

105. 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
106. Each owner or operator shall submit all semiannual reports to the District with the following information: a) process unit identification, b) number of valves subject to 40 CFR 60.482-7, c) number of pumps subject to 40 CFR 60.482-2, d) number of compressors subject to the requirements of 40 CFR 60.482-3. Each owner or operator shall submit semiannual reports to the District with the following information: a) process unit identification, b) for each month during the semiannual reporting period: number of valves, pumps, compressors for which leaks were detected; number of valves, pumps, compressors for which leaks were not repaired; the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible; dates of process unit shutdowns which occurred within the semiannual reporting period; revisions or changes to items reported in the initial semiannual report. [40 CFR 60.487(c)] Federally Enforceable Through Title V Permit
107. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4451(Amended December 17, 1992) and 4452 (Amended December 17, 1992) and 40 CFR Subpart GGG. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.



AUTHORITY TO CONSTRUCT

PERMIT NO: S-44-2-23

ISSUANCE DATE: 10/25/2010

LEGAL OWNER OR OPERATOR: TRICOR REFINING, LLC
MAILING ADDRESS: PO BOX 5877
BAKERSFIELD, CA 93388-5877

LOCATION: 1134 MANOR STREET
BAKERSFIELD, CA

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

EQUIPMENT DESCRIPTION:

MODIFICATION OF 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: DELETE OIL FIRING CAPABILITY FOR HOT OIL HEATER AND FIRE EXCLUSIVELY PUC QUALITY NATURAL GAS FOR RULE 4320 PARTICULATE MATTER COMPLIANCE

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Solvent plant vertical cylindrical-type heater fuel gas use (not including pilot gas) shall not exceed 36,800 scf/hr on a daily average basis. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

 **FILE**

DAVID WARNER, Director of Permit Services

S-44-2-23 : Oct 18 2011 2:56PM - SRANK : Joint Inspection NOT Required

7. The heater unit shall only be fired exclusively on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. Heater shall 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
9. Heater pilots (three pilots each rated at 65 scf/hr) may be fired on natural gas when gas turbine engine (S-73-2) is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
10. 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
11. Permittee shall notify the District in writing within 24 hours upon firing of heaters. [District Rules 1070, 2201] Federally Enforceable Through Title V Permit
12. Solvent plant heater emission rates shall not exceed any of the following: NO_x - 30 ppmv @ 3% O₂ or 0.036 lb/MMBtu, CO - 400 ppmv @ 3% O₂, VOC - 0.0055 lb/MMBtu, PM₁₀ - 0.0076 lb/MMBtu, or SO_x - 0.00285 lb/MMBtu. [District Rules 4306 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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing to measure NO_x 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
15. 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
16. 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
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. NO_x 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 NO_x, 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

CONDITIONS CONTINUE ON NEXT PAGE

23. If either the NO_x 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
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 NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x 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 SO_x 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

CONDITIONS CONTINUE ON NEXT PAGE

36. Nitrogen oxide (NO_x) 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
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, beginning in 2010 the operator shall pay an annual emission fee to the District for NO_x 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 NO_x emission limit listed in Rule 4320. [District Rule 4320]
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]
44. On and after July 1, 2010, 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 contracts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320]

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-3-19

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

LUBE OIL FINISHING PLANT WITH A DORMANT 5 MMBTU/HR NATURAL GAS/FUEL OIL FIRED VERTICAL CYLINDRICAL CHARGE 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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-NO_x/MMBtu, 0.0840 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 lb-PM₁₀/MMBtu, or 0.0143 lb-SO_x /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-NO_x/MMBtu, 0.0365 lb-CO/MMBtu, 0.0015 lb-VOC/MMBtu, 0.0241 lb-PM₁₀/MMBtu, or 0.0518 lb-SO_x/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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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
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 SO_x 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 SO_x 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 SO_x 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
40. The concentration of sulfur compounds in the exhaust from this permit 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 (NO_x) emissions shall not exceed 140 lb/hr, calculated as NO₂. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

42. 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
43. The operator shall check visible emissions of the flare at least once every two weeks for a period of 15 minutes. If visible emissions are detected at any time during this period, the observation period shall be extended to two hours. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
44. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
45. Actual flare emissions shall not exceed 20 tons VOC/year. Process information, including fuel usage data for the flare and process rates for operations controlled by the flare, shall be submitted to the District annually to demonstrate compliance with this requirement. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-4-18

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

LUBE OIL FINISHING PLANT - UTILITY FRACTIONATOR INCLUDING THREE ATMOSPHERIC COLUMN NOS. D-11, D-21, & D-31, THREE STANDBY HEATERS: #11 (10 MMBTU/HR - DORMANT EMISSIONS UNIT), #21 (5 MMBTU/HR - DORMANT EMISSIONS UNIT), #31 (10 MMBTU/HR - DORMANT EMISSIONS UNIT), AND THREE HEAT OIL EXCHANGERS: E-551, E-552, & E-553

PERMIT UNIT REQUIREMENTS

1. No modification to heaters #11, #21, 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, #21, and #31 while dormant. [District Rules 2201, 4306, 4307] Federally Enforceable Through Title V Permit
3. 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
4. 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
5. 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
6. The standby heaters shall be fired solely on PUC regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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
9. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
10. Heaters shall 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
11. 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
12. Permittee shall notify the District in writing within 24 hours upon firing of heaters. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Refinery produced fuel gas shall be treated in H2S scrubber listed in S-44-13. [District Rule 2201] Federally Enforceable Through Title V Permit
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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
27. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

28. 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
29. 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
30. 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
31. 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
32. 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
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
39. 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
40. 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
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). 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

42. Nitrogen oxide (NO_x) 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 (NO_x) 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
45. 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 NO_x 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 NO_x 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
46. Upon resuming operation of heaters #11 and #31, the following conditions must be met for representative unit(s) to be used to test for NO_x 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
47. Upon resuming operation of heaters #11 and #31, all units in a group for which representative units are source for NO_x 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
48. Upon resuming operation of heaters #11 and #31, all units in a group for which representative units are source tested to for NO_x 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
49. Upon resuming operation of heaters #11 and #31, the number of representative units source tested for NO_x 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-5-11

EXPIRATION DATE: 08/31/2007

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: NO_x (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-SO_x/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: NO_x - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM₁₀ - 18.10 tpy or SO_x - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The stack concentration of NO_x (as NO₂), CO, and O₂ shall be measured at least on a monthly basis using District approved portable analyzers. [District Rules 4305, 5.4.2 and 4306, 5.4.2] Federally Enforceable Through Title V Permit
8. 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
9. Source testing to measure NO_x and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rules 4305, 6.3.1, 4306, 6.3.1 and 4351] Federally Enforceable Through Title V Permit
10. Source testing to measure NO_x 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, 6.3.1, 4306, 6.3.1 and 4351] Federally Enforceable Through Title V Permit
11. If permittee fails any compliance demonstration for NO_x or CO emission limits when testing not less than once every 36 months, compliance with NO_x and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 6.3.1, 4306, 6.3.1 and 4351] Federally Enforceable Through Title V Permit
12. 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 NO_x and CO source testing requirement. [District Rules 4305, 6.3.2, 4306, 6.3.2 and 4351] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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 following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (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, 4306, 6.2 and 4351, 6.2] Federally Enforceable Through Title V Permit
17. If the NO_x 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 Rules 4305, 5.4 and 4306, 5.4] Federally Enforceable Through Title V Permit
18. The permittee shall maintain records of the date and time of NO_x, 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, 4305, 5.4 and 4306, 5.4] Federally Enforceable Through Title V Permit
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

26. 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
27. When complying with SO_x 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
28. If the unit is fired on noncertified gaseous fuel and compliance with SO_x 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
29. 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
30. 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
31. Nitrogen oxide (NO_x) 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
32. Nitrogen oxide (NO_x) emissions shall not exceed 140 lb/hr, calculated as NO₂. [District Rules 4301, 5.2.2] 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO_x 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 NO_x 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
35. The following conditions must be met for representative unit(s) to be used to test for NO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. 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
37. 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
38. 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
39. Pursuant to Rule 4320, beginning in 2010 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]
40. 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]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-6-10

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

65 MMBTU/HR SHIPPING & RECEIVING OPERATION INCLUDING NON-COMPLIANT DORMANT 45 MMBTU/HR FORCED DRAFT ASPHALT SHIPPING HEATER, AND 20 MMBTU/HR NATURAL DRAFT VERTICAL CYLINDRICAL CIRCULATING ASPHALT 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

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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 SO_x 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 SO_x 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 SO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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 (NO_x) 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 (NO_x) 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-7-3

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-8-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10001

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-9-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-10-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10003

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-11-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10004

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-12-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-13-21

EXPIRATION DATE: 08/31/2007

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 "SULFATREET" 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. [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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
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: 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NO_x, 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
14. Upon recommencing operation, if either the NO_x 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
15. Upon recommencing operation, 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
16. Upon recommencing operation, the permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x 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
17. Upon recommencing operation, 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. Upon recommencing operation, source testing to measure natural gas-combustion NO_x 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
19. Upon recommencing operation, 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
20. Upon recommencing operation, 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. Upon recommencing operation, NO_x 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
22. Upon recommencing operation, 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. Upon recommencing operation, 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
24. Upon recommencing operation, the arithmetic average of three 30-consecutive-minute test runs shall apply for emissions source testing. 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
25. Upon recommencing operation, 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. 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
27. Upon recommencing operation, 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
28. Upon recommencing operation, 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
29. Upon recommencing operation, 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
30. Upon recommencing operation, 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
31. Upon recommencing operation, 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
32. Upon recommencing operation, 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
33. Upon recommencing operation, 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
34. Upon recommencing operation, 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
35. 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
36. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

37. 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
38. When complying with SO_x 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
39. If the unit is fired on noncertified gaseous fuel and compliance with SO_x 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
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 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
41. Upon recommencing operation, 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 NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. Upon recommencing operation, 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
43. Upon recommencing operation, 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
44. Upon recommencing operation, 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
45. 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
46. 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
47. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-14-1

EXPIRATION DATE: 08/31/2007

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 maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. Particulate matter (PM-10) emission rate shall not exceed 0.16 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sulfur compound emission rate shall not exceed 0.06 lb/hr as SO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Nitrogen oxide emission rate shall not exceed 1.87 lb/hr as NO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Volatile organic compound (VOC) emission rate shall not exceed 0.04 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Carbon monoxide (CO) emission rate shall not exceed 1.21 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), and the sulfur content of the diesel fuel used. [District Rule 4701 and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
10. The sulfur content of the diesel fuel used shall not exceed 0.05% by weight and shall be supplier certified. [Kern County Rule 407] Federally Enforceable Through Title V Permit
11. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. Compliance with this requirement is assured by only using diesel fuel with sulfur content not exceeding 0.05% by weight. [Kern County Rule 407] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-15-1

EXPIRATION DATE: 08/31/2007

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 maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. Particulate matter (PM-10) emission rate shall not exceed 0.20 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sulfur compound emission rate shall not exceed 0.08 lb/hr as SO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Nitrogen oxide emission rate shall not exceed 1.98 lb/hr as NO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Carbon monoxide (CO) emission rate shall not exceed 0.99 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), and the sulfur content of the diesel fuel used. [District Rule 4701 and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
10. The sulfur content of the diesel fuel used shall not exceed 0.05% by weight and shall be supplier certified. [Kern County Rule 407] Federally Enforceable Through Title V Permit
11. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. Compliance with this requirement is assured by only using diesel fuel with sulfur content not exceeding 0.05% by weight. [Kern County Rule 407] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-16-1

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-17-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-18-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-19-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #802

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-20-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

35,490 GALLON FIXED ROOF STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-21-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #805

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-22-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #806

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-25-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-26-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-27-2

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017

PERMIT UNIT REQUIREMENTS

1. Tank may store air blown asphalt. [District Rule 2010] Federally Enforceable Through Title V Permit
2. 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 12/20/2001). [District Rule 4623]
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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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
7. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-28-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-29-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

453,096 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10023

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-30-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-31-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17002

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-34-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

11,298 GALLON FIXED ROOF PETROLEUM STORAGE TANK #283

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-35-3

EXPIRATION DATE: 08/31/2007

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-44-36-1

EXPIRATION DATE: 08/31/2007

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. 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 12/20/2001). [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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 12/20/01). 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
5. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-37-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

84,882 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2059

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-41-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-42-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-44-1

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-45-1

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-46-1

EXPIRATION DATE: 08/31/2007

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-47-3

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. True Vapor Pressure (TVP) of any material introduced, placed or stored in this tank shall be less than 11.0 psia. [District Rule 4623, 5.1] Federally Enforceable Through Title V Permit
3. The tank shall be in a gas-tight 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 gas-tight condition except when the operating pressure exceeds the valve's set pressure. Any tank gauging or sampling device shall be equipped with a gas-tight cover that shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.2] Federally Enforceable Through Title V Permit
4. Permittee shall conduct True Vapor Pressure (TVP) testing, and API gravity testing if storing crude oil or petroleum distillate, of the materials 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. [District Rule 4623, 6.2.2] Federally Enforceable Through Title V Permit
5. 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
6. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 20 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit
7. 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 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623, 6.4.2] Federally Enforceable Through Title V Permit
8. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

9. 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
10. 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
11. 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
12. 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, 5.7.1] Federally Enforceable Through Title V Permit
13. 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, 5.7.4] Federally Enforceable Through Title V Permit
14. Permittee shall maintain records of TVP prior to tank interior cleaning and length of time to accomplish tank interior cleaning. [District Rules 2201 & 4623] Federally Enforceable Through Title V Permit
15. 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, 6.1] Federally Enforceable Through Title V Permit
16. 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
17. 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
18. 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
19. 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, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-48-3

EXPIRATION DATE: 08/31/2007

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 gas-tight 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 gas-tight condition except when the operating pressure exceeds the valve's set pressure. Any tank gauging or sampling device shall be equipped with a gas-tight 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 measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323-94, the TVP of crude oil with an API gravity range of greater than 20 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit
5. 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
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, 6.3.6] 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 (if required). [District Rule 4623, 6.3.1] 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, 6.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

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. 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
11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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 12/20/01). 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
20. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-49-1

EXPIRATION DATE: 08/31/2007

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. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623] 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 12/20/2001). [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. 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 12/20/01). 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
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 December 20, 2001). [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 store in this unit to determine which oil are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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 12/20/2001). [District Rule 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-52-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #803

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-79-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

113,736 GALLON FIXED ROOF STORAGE TANK #2009

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-133-1

EXPIRATION DATE: 08/31/2007

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 gas-tight (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 gas-tight (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 placed, stored, or held in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] 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 (as amended 12/20/2001). [District Rule 4623]
9. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. 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 12/20/01). 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
11. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-134-1

EXPIRATION DATE: 08/31/2007

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 gas-tight (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 gas-tight (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. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
8. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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 12/20/01). 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
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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-135-1

EXPIRATION DATE: 08/31/2007

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 gas-tight (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 gas-tight (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. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
8. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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 12/20/01). 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
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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-141-2

EXPIRATION DATE: 08/31/2007

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 maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), and the sulfur content of the diesel fuel used. [District Rule 4701 and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
5. The sulfur content of the diesel fuel used shall not exceed 0.05% by weight and shall be supplier certified. [Kern County Rule 407] Federally Enforceable Through Title V Permit
6. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. Compliance with this requirement is assured by only using diesel fuel with sulfur content not exceeding 0.05% by weight. [Kern County Rule 407] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-142-2

EXPIRATION DATE: 08/31/2007

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 and District Rules 4701, and 4702] Federally Enforceable Through Title V Permit
2. The permittee shall operate a non-resettable elapsed operating time meter. The owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. The owner or operator shall maintain the required meter in proper operating condition. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rules 2201, 4701, and 4702]] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be fired on PUC quality natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), and the type and quantity (cubic feet of gas or gallons of liquid) of fuel used. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 4701, and 4702] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the sulfur content of the fuel used. [District Rule 4701 and District Rule 2520, 9.4.2] 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. Compliance with this requirement is assured by only using diesel fuel with sulfur content not exceeding 0.05% by weight. [Kern County Rule 407] Federally Enforceable Through Title V Permit
9. 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
10. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-143-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-1

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-144-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-145-10

EXPIRATION DATE: 08/31/2007

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). [District Rule 2520, 9.3.2] 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

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 SO_x (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 SO_x 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. SO_x emissions expressed as lbs-SO_x/ton shall be calculated using the exhaust concentration of SO_x 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

These terms and conditions are part of the Facility-wide Permit to Operate.

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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-146-5

EXPIRATION DATE: 08/31/2007

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

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 NO_x/day, or 20,550 lb NO_x/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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-148-3

EXPIRATION DATE: 08/31/2007

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 12/20/2001). [District Rule 4623]
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 12/20/2001) 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 12/20/01). 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 December 20, 2001). [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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-149-3

EXPIRATION DATE: 08/31/2007

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 12/20/2001) 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 12/20/01). 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 December 20, 2001). [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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-150-2

EXPIRATION DATE: 08/31/2007

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 facility, or any malfunction of the air pollution control equipment. [District Rule 4001 and District Rule 2520, 9.3.2] 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 474(b)(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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. 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 December 17, 1992). [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-152-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

80,000 BBL ASPHALT STORAGE TANK T-80001

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-153-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

80,000 BBL ASPHALT STORAGE TANK T-80002

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-154-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

80,000 BBL ASPHALT STORAGE TANK T-80003

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-155-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

80,000 BBL ASPHALT STORAGE TANK T-80004

PERMIT UNIT REQUIREMENTS

1. This tank shall only be used to store asphalt with True Vapor Pressure (TVP) less than 3.5 KPa (0.5 psia). [40 CFR Subpart K 60.113 (d), and District Rule 4623] Federally Enforceable Through Title V Permit
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-156-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

96,000 BBL ASPHALT STORAGE TANK T-96001

PERMIT UNIT REQUIREMENTS

1. 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 12/20/2001). [District Rule 4623]
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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
6. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623 (amended 12/17/1992)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-157-1

EXPIRATION DATE: 08/31/2007

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 12/20/2001) 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 12/20/01). 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
These terms and conditions are part of the Facility-wide Permit to Operate.

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 December 20, 2001). [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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-158-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

10,000 BBL ASPHALT STORAGE TANK TK-10025

PERMIT UNIT REQUIREMENTS

1. This tank shall only be used to store asphalt with True Vapor Pressure (TVP) less than 3.5 KPa (0.5 psia). [40 CFR Subpart K 60.113 (d) and District Rule 4623] Federally Enforceable Through Title V Permit
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-160-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5001

PERMIT UNIT REQUIREMENTS

1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia (KPa) at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, District Rule 2520, 9.1, and 40 CFR 60.110b(c)] Federally Enforceable Through Title V Permit
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-161-1

EXPIRATION DATE: 08/31/2007

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

EQUIPMENT DESCRIPTION:

211,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5002

PERMIT UNIT REQUIREMENTS

1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia (3.5 KPa) at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, District Rule 2520, 9.1, and 40 CFR 60.110b(c)] Federally Enforceable Through Title V Permit
2. 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 12/20/2001) or other method approved by the APCO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. 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 12/20/01). 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
4. 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 December 20, 2001). [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
5. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-165-1

EXPIRATION DATE: 08/31/2007

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. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. 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
5. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier. [District Rule 4702]
6. 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
7. 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
8. 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
9. NO_x emissions (referenced as NO₂) shall not exceed 3.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. VOC emissions (referenced as methane) shall not exceed 0.2 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. CO emissions shall not exceed 0.9 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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
13. 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
14. 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
15. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-166-1

EXPIRATION DATE: 08/31/2007

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. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. 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
5. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier. [District Rule 4702]
6. 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
7. 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
8. 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
9. NOx emissions (referenced as NO2) shall not exceed 3.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. VOC emissions (referenced as methane) shall not exceed 0.2 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. CO emissions shall not exceed 0.9 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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
13. 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
14. 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
15. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. 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

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT C

Detailed Facility List

Permit#	Equipment Description
S-44-1-16	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-44-2-21	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-44-3-19	LUBE OIL FINISHING PLANT WITH A DORMANT 5 MMBTU/HR NATURAL GAS/FUEL OIL FIRED VERTICAL CYLINDRICAL CHARGE 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-44-4-18	LUBE OIL FINISHING PLANT - UTILITY FRACTIONATOR INCLUDING THREE ATMOSPHERIC COLUMN NOS. D-11, D-21, & D-31, THREE STANDBY HEATERS: #11 (10 MMBTU/HR - DORMANT EMISSIONS UNIT), #21 (5 MMBTU/HR - DORMANT EMISSIONS UNIT), #31 (10 MMBTU/HR - DORMANT EMISSIONS UNIT), AND THREE HEAT OIL EXCHANGERS: E-551, E-552, & E-553
S-44-5-11	99.9 MMBTU/HR NATURAL GAS-FIRED ZURN MODEL 15M KEYSTONE BOILER WITH COEN STAGED AIR BURNER AND FLUE GAS RECIRCULATION
S-44-6-10	65 MMBTU/HR SHIPPING & RECEIVING OPERATION INCLUDING NON-COMPLIANT DORMANT 45 MMBTU/HR FORCED DRAFT ASPHALT SHIPPING HEATER, AND 20 MMBTU/HR NATURAL DRAFT VERTICAL CYLINDRICAL CIRCULATING ASPHALT HEATER
S-44-7-3	VORTOIL, MODEL H50-GO-ICR, HORIZONTAL HYDRO-CYCLONE OIL/WATER SEPARATOR.
S-44-8-1	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10001
S-44-9-1	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002
S-44-10-1	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10003
S-44-11-1	420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10004
S-44-12-1	2,284,128 GALLON FIXED ROOF PETROLEUM STORAGE TANK #54001
S-44-13-21	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 "SULFATREET" ADSORBENT VERTICAL COLUMN FUEL GAS SCRUBBER WITH NOMINAL DIMENSIONS 18' LONG BY 4' DIAMETER
S-44-14-1	71 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 30 KW ELECTRICAL GENERATOR
S-44-15-1	91 BHP DIESEL-FIRED EMERGENCY I. C. ENGINE INCLUDING 50 KW ELECTRICAL GENERATOR
S-44-16-1	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-44-17-1	24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602
S-44-18-1	35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801
S-44-19-1	35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #802
S-44-20-1	35,490 GALLON FIXED ROOF STORAGE TANK
S-44-21-1	35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #805
S-44-22-1	35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #806
S-44-25-1	374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001
S-44-26-1	415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008
S-44-27-2	473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017
S-44-28-1	474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018
S-44-29-1	453,096 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10023
S-44-30-1	708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001
S-44-31-1	708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17002
S-44-34-1	11,298 GALLON FIXED ROOF PETROLEUM STORAGE TANK #283
S-44-35-3	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-44-36-1	252,546 GALLON WASTEWATER STORAGE TANK #6001

Permit#	Equipment Description
S-44-37-1	84,882 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2059
S-44-41-1	475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009
S-44-42-1	40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065
S-44-44-1	325 HP COOLING TOWER #1 INCLUDING THREE PUMPS AND ONE FAN
S-44-45-1	450 HP COOLING TOWER #2 INCLUDING FOUR PUMPS AND TWO FANS
S-44-46-1	ONE 1,600 GALLON STORAGE TANK #24-1 GASOLINE STORAGE TANK (PHASE I AND PHASE II EXEMPT)
S-44-47-3	11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #281
S-44-48-3	11,508 GALLON FIXED ROOF ORGANIC LIQUID STORAGE TANK #282
S-44-49-1	11,508 GALLON FIXED ROOF PETROLEUM STORAGE TANK #284
S-44-52-1	35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #803
S-44-79-1	113,736 GALLON FIXED ROOF STORAGE TANK #2009
S-44-133-1	147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 3501)
S-44-134-1	147,000 GALLON, 25 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE/VACUUM VALVE. (ID# 3502)
S-44-135-1	1,008,000 GALLON, 60 FT. DIAMETER, FIXED ROOF WASTEWATER TANK WITH PRESSURE VACUUM VALVE. (ID# 24001)
S-44-141-2	609 HP DIESEL-FIRED EMERGENCY IC ENGINE DRIVING A ELECTRICAL GENERATOR, EQUIPMENT #D-203
S-44-142-2	65 HP ONAN MODEL 30EK-4XR/3434A NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A 30 KW ELECTRIC GENERATOR
S-44-143-1	1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-1
S-44-144-1	1,600 GALLON HORIZONTAL ANTI-FOULANT TANK #38-2
S-44-145-10	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-44-146-5	ASPHALT AIR BLOWING OPERATION (STILL #2) WITH 690 BBL STILL AND VAPOR PIPING TO OFFGAS INCINERATOR LISTED ON S-44-145
S-44-148-3	FLUX TRUCK UNLOADING AND HEATED RAILCAR UNLOADING OPERATIONS WITH 5000 BBL HEATED FLUX STORAGE TANK T-5025
S-44-149-3	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.
S-44-150-2	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-44-152-1	80,000 BBL ASPHALT STORAGE TANK T-80001
S-44-153-1	80,000 BBL ASPHALT STORAGE TANK T-80002
S-44-154-1	80,000 BBL ASPHALT STORAGE TANK T-80003
S-44-155-1	80,000 BBL ASPHALT STORAGE TANK T-80004
S-44-156-1	96,000 BBL ASPHALT STORAGE TANK T-96001
S-44-157-1	400 BBL (17,000 GALLON) FIXED ROOF PETROLEUM LIQUIDS STORAGE TANK #TK-401 WITH TRUCK LOADOUT
S-44-158-1	10,000 BBL ASPHALT STORAGE TANK TK-10025
S-44-160-1	210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5001
S-44-161-1	211,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5002
S-44-165-1	TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104373)
S-44-166-1	TRANSPORTABLE 80 HP TIER III JOHN DEERE MODEL 4045TF280B DIESEL-FIRED IC ENGINE DRIVING AN AIR COMPRESSOR (S/N PE4045L104372)

ATTACHMENT D

Current District Rule SIP Comparison

Stringency Comparison of District Rule 4601 Non-SIP Version (12/17/09) to Current SIP Version (10/31/01)

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
2.0 Applicability	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures any architectural coating for use within the District.	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	No change in the applicability, therefore, non-SIP version of rule is as stringent as SIP version.
4.0 Exemptions	<p>The provisions of this rule shall not apply to:</p> <p>4.1 Any architectural coating that is sold or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.2 Any architectural coating that is sold in a containers with a volume of one liter (1.057 quarts) or less.</p> <p>4.3 Any aerosol coating product.</p>	<p>4.1 The provisions of this rule shall not apply to:</p> <p>4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.1.2 Any aerosol coating product.</p> <p>4.2 With the exception of Section 6.2, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less.</p>	The only change is to require reporting requirements as discussed in Section 6.2 of the non-SIP approved version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
5.0 Requirements	Note: Section 5.0 requirements refer to Table of Standards, Table of Standards 1, and Table of Standards 2. These tables are included as Attachment X.		
	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2, 5.3, 5.8 and 8.0, no person shall;</p> <p>5.1.1 manufacture, blend, or repackage for sale within the District;</p> <p>5.1.2 supply, sell, or offer for sale within the district;</p> <p>5.1.3 solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards, after the specified effective date in the Table of Standards.</p>	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall: manufacture, blend, or repackage for use within the District; or supply, sell, or offer for sale within the District; or solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.</p>	Sections 5.8 and 8.0 of the SIP version are not included in the non-SIP version. As discussed in corresponding sections the non-SIP version is more stringent. The Table of Standards and Table of Standards 1 have the same VOC limits. Table of Standard 2 is more stringent as discussed below. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
	<p>5.2 Most Restrictive VOC Limit: If anywhere on the container of any architectural coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf, any representation is made that indicates that the coating meets the definition of or is recommended for use for more than one of the coating categories listed in the Table of Standards, then the most restrictive VOC content limit shall apply. This provision does not apply to the following coating categories:</p> <p>5.2.1 Lacquer coatings (including lacquer sanding sealers)</p> <p>5.2.2 Metallic pigmented coatings</p> <p>5.2.3 Shellacs</p> <p>5.2.4 Fire-retardant coatings</p> <p>5.2.5 Pretreatment wash primers</p> <p>5.2.6 Industrial maintenance coatings</p> <p>5.2.7 Low-solids coatings</p>	<p>5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, Nonflat, or Nonflat – High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2.</p> <p>5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.3.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.2 Effective on and after January 1, 2011, with the exception of the</p>	The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>5.2.8 Wood preservatives 5.2.9 High temperature coatings 5.2.10 Temperature-indicator safety coatings 5.2.11 Antenna coatings 5.2.12 Antifouling coatings 5.2.13 Flow coatings 5.2.14 Bituminous roof primers 5.2.15 Specialty primers, sealers and undercoaters</p>	<p>specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.3 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</p> <p>5.2.3.1 Lacquer coatings (including lacquer sanding sealers) 5.2.3.2 Metallic pigmented coatings 5.2.3.3 Shellacs 5.2.3.4 Fire-retardant coatings 5.2.3.5 Pretreatment wash primers 5.2.3.6 Industrial maintenance coatings 5.2.3.7 Low-solids coatings 5.2.3.8 Wood preservatives 5.2.3.9 High temperature coatings 5.2.3.10 Temperature-indicator safety coatings 5.2.3.11 Antenna coatings 5.2.3.12 Antifouling coatings 5.2.3.13 Flow coatings 5.2.3.14 Bituminous roof primers 5.2.3.15 Specialty primers, sealers and undercoaters 5.2.3.16 Aluminum roof coatings 5.2.3.17 Zinc-rich primers 5.2.3.18 Wood Coatings</p>	
	<p>5.3 Sell-Through of Coatings: 5.3.1 A coating manufactured prior to the January 1, 2003 or January 1, 2004 effective date specified for that coating in the Table of Standards may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1. 5.3.2 A coating included in an approved Averaging Program that does not comply with the specified limit in the</p>	<p>5.3 Sell-Through of Coatings: A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Section 5.3.2 was removed it is no longer applicable in the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>Table of Standards may be sold, supplied, or offered for sale for up to three years after the end of the compliance period specified in the approved Averaging Program. In addition, such a coating may be applied at any time, both during and after the compliance period. This Section 5.3.2 does not apply to any coating that does not display on the container either the statement: "This product is subject to architectural coatings averaging provisions in California" or a substitute symbol specified by the Executive Officer of the California Air Resources Board (ARB). This Section 5.3.2 shall remain in effect until January 1, 2008.</p>		
	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC containing materials used for thinning and cleanup shall also be closed when not in use.</p>	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.</p>	<p>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</p>
	<p>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards.</p>	<p>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.6 Rust Preventative Coatings: Effective January 1, 2004, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards.</p>	<p>5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards 1.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.7 Coatings Not Listed in the Table of Standards: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards, the VOC content limit shall be determined by classifying the coating as a flat coating or a nonflat coating, based on its gloss, as defined in Sections 3.21, 3.36 and 3.37 and the corresponding flat or nonflat VOC limit shall apply.</p>	<p>5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat – High Gloss coating, based on its gloss, and the corresponding Flat, Nonflat, or Nonflat – High Gloss VOC limit in the Table of Standards 1 or the Table of Standards 2 shall apply.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.8 Lacquers: Notwithstanding the provisions of Section 3.1, a person or facility may add up to 10 percent by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater</p>	<p>---</p>	<p>This section has been removed. The operation is required to meet the lacquer VOC limit regardless of</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	than 70 percent and temperature below 65°F, at the time of application, provided that the coating contains acetone and no more than 550 grams of VOC per liter of coating, less water and exempt compounds, prior to the addition of VOC.		temperature and humidity. Therefore, non-SIP version of rule is as stringent as SIP version
	5.9 Averaging Compliance Option: On or after January 1, 2003, in lieu of compliance with the specified limits in The Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; bituminous roof coatings; rust preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in Section 8.0, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section 5.9 and Section 8.0 shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.	—	This section is removed from the non-SIP version, it is no longer applicable. Therefore, non-SIP version of rule is as stringent as SIP version.
	—	5.8 Prior to January 1, 2011, any coating that meets a definition in Section 3.0 for a coating category listed in the Table of Standards 2 and complies with the applicable VOC limit in the Table of Standards 2 and with Sections 5.2 and 6.1 (including those provision of Section 6.1 otherwise effective on January 1, 2011) shall be considered in compliance with this rule.	Table of Standards 2 is more stringent than the VOC limits of Table of Standards in the SIP-Approved version. Therefore, non-SIP version of rule is as stringent as SIP version.
Table of Standards (See Attachment X for Table)		Table of Standards 1 (Effective through 12/31/10) (See Attachment X for Table)	The non-SIP rule requirements are the same as the Table of Standards in the SIP approved rule, except Table of Standards 1 expires at which time Table of Standards 2 is in effect. As discussed below these standards are more stringent. Therefore, non-SIP version of rule is as stringent as SIP version.
		Table of Standards 2 (Effective on and after 1/1/11) (See Attachment X for Table)	The requirements of Table of Standards 2 are more stringent than the Table of Standards in the SIP rule. Therefore, non-SIP version of rule is as stringent as SIP version.
6.0 Administrative Requirements	6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections	6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the	The non-SIP approved rule contain sections listed in the SIP rule plus

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.1.1 through 6.1.9 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display either the maximum or actual VOC content of the coating, as supplied, including the maximum thinning as recommended by the manufacturer. VOC content shall be displayed in grams of VOC per liter of coating. VOC content displayed shall be calculated using product formulation data, or shall be determined using the test methods in Section</p> <p>6.3.1. The equations in Sections 3.25 or 3.26, as appropriate, shall be used to calculate VOC content.</p> <p>6.1.4 Industrial Maintenance Coatings: In addition to the information specified in Sections 6.1.1, 6.1.2 and 6.1.3, each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.4.1 through 6.1.4.3.</p> <p>6.1.4.1 "For industrial use only"</p> <p>6.1.4.2 "For professional use only"</p> <p>6.1.4.3 "Not for residential use" or "Not intended for residential use"</p> <p>6.1.5 Clear Brushing Lacquers: Effective January 1, 2003, the labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed."</p> <p>6.1.6 Rust Preventative Coatings: Effective January 1, 2003, the labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only"</p> <p>6.1.7 Specialty Primers, Sealers and Undercoaters: Effective January 1, 2003, the labels of all specialty primers, sealers and undercoaters shall prominently</p>	<p>information listed in Sections 6.1.1 through 6.1.14 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.1.4 Faux Finishing Coatings: Effective January 1, 2011, the labels of all clear topcoat Faux Finishing coatings shall prominently display the statement "This product can only be sold or used as part of a Faux Finishing coating system".</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of</p>	<p>additional requirements not found in the SIP version. Therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>display one or more of the descriptions listed in Section</p> <p>6.1.7.1 through 6.1.7.5.</p> <p>6.1.7.1 For blocking stains.</p> <p>6.1.7.2 For fire-damaged substrates.</p> <p>6.1.7.3 For smoke-damaged substrates.</p> <p>6.1.7.4 For water-damaged substrates.</p> <p>6.1.7.5 For excessively chalky substrates.</p> <p>6.1.8 Quick Dry Enamels: Effective January 1, 2003, the labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time.</p> <p>6.1.9 Non-flat – High Gloss Coatings: Effective January 1, 2003, the labels of all non-flat – high gloss coatings shall prominently display the words "High Gloss".</p>	<p>the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 "For industrial use only"</p> <p>6.1.5.2 "For professional use only"</p> <p>6.1.5.3 "Not for residential use" or "Not intended for residential use"</p> <p>6.1.6 Clear Brushing Lacquers: The labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed." (Category deleted effective January 1, 2011.)</p> <p>6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only".</p> <p>6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.</p> <p>6.1.8.1 For fire-damaged substrates.</p> <p>6.1.8.2 For smoke-damaged substrates.</p> <p>6.1.8.3 For water-damaged substrates.</p> <p>6.1.8.4 For excessively chalky substrates.</p> <p>6.1.8.5 For blocking stains.</p> <p>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time. (Category deleted effective January 1, 2011.)</p> <p>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2011, the labels of all Reactive Penetrating Sealers shall prominently display the statement "Reactive Penetrating Sealer."</p> <p>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement "Stone Consolidant - For Professional Use Only."</p> <p>6.1.12 Nonflat– High Gloss Coatings: The labels of all Nonflat – high gloss coatings shall prominently display the words "High Gloss."</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement "For Wood Substrates Only."</p> <p>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3.</p> <p>6.1.14.1 "For industrial use only"</p> <p>6.1.14.2 "For professional use only"</p> <p>6.1.14.3 "Not for residential use" or "Not intended for residential use"</p>	
	<p>6.2 Reporting Requirements</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p>	<p>6.2 Reporting Requirements</p> <p>The reporting requirements specified in Sections 6.2.1 through 6.2.6 shall apply until December 31, 2010.</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an</p>	<p>Until December 31, 2010 both versions of the rule have the same reporting requirements. After that date the non-SIP approved rule includes very specific information to be kept and is required for all architectural coatings. Therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.2.4.2 the product category listed in the Table of Standards to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p>	<p>annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p> <p>6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales.</p> <p>6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 to 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17,</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.7.1 through 6.2.7.14:</p> <p>6.2.7.1 the name and mailing address of the manufacturer;</p> <p>6.2.7.2 the name, address and telephone number of a contact person;</p> <p>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.7.4 whether the product is marketed for interior or exterior use or both;</p> <p>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.7.10 description of resin or binder in the product;</p> <p>6.2.7.11 whether the coating is a single-component or multi-component product;</p> <p>6.2.7.12 the density of the product in pounds per gallon;</p> <p>6.2.7.13 the percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.7.14 the percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.3 Test Methods</p> <p>6.3.1 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.26 and 3.27, the reference method for VOC content is U.S. EPA Method 24, except as provided in Sections 6.3.2 and 6.3.15. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996), incorporated by reference in Section 6.3.14. The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised August 1996), incorporated by reference in Section 6.3.12. To determine the VOC content of a coating, the manufacturer may use U.S. EPA Method 24, or an alternative method as provided in Section 6.3.2, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of a Method 24 test and any other means for determining VOC content, the Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.2. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct a Method 24 analysis.</p> <p>6.3.2 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.1, after review and approved in writing by the staffs of the District, the ARB and the U.S. EPA, may also be used. 6.3.3 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of U.S. EPA Method 24 (40 CFR 59, subpart D, Appendix A), incorporated by reference in Section 6.3.15. This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.4 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM Designation E 84-99, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3, Fire-Retardant Coating).</p> <p>6.3.5 Fire Resistance Rating: The fire</p>	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating shall be determined as defined in Section 3.77, 3.78, or 3.79 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.77 and 3.79, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.16. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.3, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24</p>	<p>The non-SIP version includes all the requirements of the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>resistance rating of a fire-resistive coating shall be determined by ASTM Designation E 119-98, "Standard Test Methods for Fire Tests of Building Construction Materials"(see Section 3, Fire-Resistive Coating).</p> <p>6.3.6 Gloss Determination: The gloss of a coating shall be determined by ASTM Designation D 523-89 (1999), "Standard Test Method for Specular Gloss"(see Section 3, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.7 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3, Metallic Pigmented Coating).</p> <p>6.3.8 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM Designation D 1613-96, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products"(see Section 3, Pre-Treatment Wash Primer).</p> <p>6.3.9 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM Designation D 1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quickdry enamel coating shall be determined by the Mechanical Test Method of ASTM Designation D 1640-95.</p> <p>6.3.10 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM Designation D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films"(see Section 3, Specialty Primer, Sealer and Undercoater).</p> <p>6.3.11 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.12 Exempt Compounds—</p>	<p>test results will govern, except when an alternative method is approved as specified in Section 6.3.3. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.4 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.5 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-07, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.6 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-07, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.7 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-89 (1999), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.8 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.9 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM D1613-06, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.13 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1996), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.14 VOC Content of Coatings: The VOC content of a coating shall be determined by U.S. EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.1).</p> <p>6.3.15 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 6.3.1).</p> <p>6.3.16 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998) (see Section 6.3.3).</p>	<p>6.3.10 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category deleted effective January 1, 2011.)</p> <p>6.3.11 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films" (see Section 3, Specialty Primer, Sealer and Undercoater). (Category deleted effective January 1, 2011.)</p> <p>6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1993); "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of</i></p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p><i>Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.16 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i>.</p> <p>6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-04, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.19 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-02, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.21 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-07, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.22 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02e1, "Standard Test Method</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>for Evaluating Degree of Blistering of Paints".</p> <p>6.3.23 Waterproofing Membrane: Waterproofing membrane shall be tested by ASTM C836-06, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.24 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-00, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber" and ASTM D3274-95, "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation".</p> <p>6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.26 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-05, "Standard Test Method for Water Vapor Transmission of Materials".</p> <p>6.3.27 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.28 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01, "Standard Guide for Selection and Use of Stone Consolidants".</p>	
7.0 Compliance Schedule	Persons subject to this rule shall be in compliance with this rule by October 31, 2001.	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.
8.0 Averaging Compliance Option	8.1 On or after January 1, 2003, in lieu of compliance with the specified limits in the Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; rust		No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in this Section, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.</p> <p>Per Section 8.1, averaging is no longer applicable. Therefore, Section 8.2 through 8.14 are not listed.</p>		

District Rule 4601 was amended (12/17/2009). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule.

ATTACHMENT E

District Responses To Facility Requested Changes

**Tricor Refining, LLC Requested Changes
Title V Renewal**

Permit/ATC#	Condition #	Requested Change	District Action
S-44-0-1	43	Remove condition. Facility is not required to have an RMP.	<i>Done</i>
S-44-1-16	5	Remove condition, or restate that VOC fugitive emissions shall be in compliance with Rule 4455.	<i>Permit unit is dormant. No action taken</i>
S-44-2-20 (ATC)	11	Please remove condition. Written notification is redundant with other record keeping requirements for hours of operation, fuel use, etc. for heaters.	<i>Done</i>
	20	After the words "monthly basis" please add the following ", in months which units are fired," to clarify that units do not have to be fired only for the purpose of monthly emission monitoring.	<i>Done</i>
S-44-3-17 (ATC)	11	Remove condition, or restate that VOC fugitive emissions shall be in compliance with Rule 4455.	<i>Permit unit is dormant. No action taken</i>
	17	Add to condition: "or within the guidelines of CAPCOA's procedures for calculating fugitive emissions"	<i>Permit unit is dormant. No action taken</i>
	22	Please remove condition. Written notification is redundant with other record keeping requirements for hours of operation, fuel use, etc. fur heaters.	<i>Permit unit is dormant. No action taken</i>
	35	Please add that compliance with this condition may also be demonstrated by only firing heater on PUC regulated natural gas.	<i>Permit unit is dormant. No action taken</i>
S-44-4-15 (ATC)	12	Please remove condition. Written notification is redundant with other record keeping requirements for hours of operation, fuel use, etc. for heaters.	<i>Permit unit is dormant. No action taken</i>
	19	After the words "monthly basis" please add the following ", in months which units are fired," to clarify that units do not have to be fired only for the purpose of monthly emission monitoring.	<i>Permit unit is dormant. No action taken</i>
	40	Please add that compliance with this condition may also be demonstrated by only firing heater on PUC regulated natural gas.	<i>Permit unit is dormant. No action taken</i>
S-44-5-11	7	After the words "monthly basis" please add the following ", in months which units are fired," to clarify that units do not have to be fired only for the purpose of monthly emission monitoring.	<i>Done</i>

**Tricor Refining, LLC Requested Changes
Title V Renewal**

Permit/ATC#	Condition #	Requested Change	District Action
S-44-6-10 (ATC)	6	Remove condition. Conflicts with condition number 27.	<i>Permit unit is dormant. No action taken</i>
	10	Please remove condition. Written notification is redundant with other record keeping requirements for hours of operation, fuel use, etc. for heaters.	<i>Permit unit is dormant. No action taken</i>
	13	<u>Change</u> condition to read, "Heater shall not be fired on oil for more than 336 hours per year, excluding maintenance and equipment testing not to exceed 48 hours/year. This <u>aligns</u> wording with Rule 4351.	<i>Permit unit is dormant. No action taken</i>
	17	After the words "monthly basis" please add the following ", in months which units are fired," to clarify that units do not have to be fired only for the purpose of monthly emission monitoring.	<i>Permit unit is dormant. No action taken</i>
	27	Remove "Heater A" from this condition. Heater A is not part of the Permit to Operate.	<i>Permit unit is dormant. No action taken</i>
	37	Please add that compliance with this condition may also be demonstrated by only firing heater on PUC regulated natural gas.	<i>Permit unit is dormant. No action taken</i>
	43	Please add that compliance with this condition may also be demonstrated by only firing heater on PUC regulated natural gas.	<i>Permit unit is dormant. No action taken</i>
S-44-6-8 (ATC)	9	Remove condition. Conflicts APCD Rule 4306.	<i>Permit unit is dormant. No action taken</i>
	13	Please remove condition. Written notification is redundant with other record keeping requirements for hours of operation, fuel use, etc. for heaters.	<i>Permit unit is dormant. No action taken</i>
	16	Change condition to read, "Heater shall not be fired on oil for more than 336 hours per year, excluding maintenance and equipment testing not to exceed 48 hours/year. This aligns wording with Rule 4351.	<i>Permit unit is dormant. No action taken</i>
	20	After the words "monthly basis" please add the following ", in months which units are fired," to clarify that units do not have to be fired only for the purpose of monthly emission monitoring.	<i>Permit unit is dormant. No action taken</i>

**Tricor Refining, LLC Requested Changes
Title V Renewal**

Permit/ ATC#	Condition #	Requested Change	District Action
S-44-7-3	6	After words "to vacuum plant" please add "or utility fractionator plant". Both plants have the ability to operate as the primary crude processing plant.	<i>Change requires NSR Action. Cannot be done in TV renewal</i>
S-44-8-1	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-9-1	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-104	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-11-1	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-124	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-17-1	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-18-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-19-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S44-20-1	Description	Add "Tank 1804" to Equipment Description for ID purposes.	<i>Done</i>
	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	
S-44-21-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-22-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-25-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-26-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-27-2	7	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-28-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-29-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-30-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-31-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-34-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-37-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-41-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>

**Tricor Refining, LLC Requested Changes
Title V Renewal**

Permit/ ATC#	Condition #	Requested Change	District Action
S-44-42-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-48-3	19	Change wording in last sentence to "type of organic liquid entering" from "type of petroleum liquid entering".	<i>Done</i>
S-44-49-1	3	Remove condition. Conflicts with condition number 9, and APCD Rule 4623.	<i>Done</i>
S-44-52-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-79-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-143-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-144-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-152-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-153-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-154-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>
S-44-156-1	6	Remove condition. Conflicts with condition number 1, and APCD Rule 4623.	<i>Done</i>