



**JAN 24 2012**

Jeff Beecher  
Tricor Refining, LLC  
P. O Box 5877  
Bakersfield, CA 93388

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

Dear Mr. Beecher:

The District has issued the Final Title V Permit for Tricor Refining, LLC. The preliminary decision for this project was made on November 3, 2011. A summary of the comments and the District's response to each comment is included with the Renewed Final Title V Permit and public notice to be published approximately three days from the date of this letter.

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

Sincerely,

David Warner  
Director of Permit Services

Attachments

cc: 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)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



**JAN 24 2012**

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

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

Dear Mr. Rios:

The District has issued the Final Title V Permit Renewal for Tricor Refining, LLC. The preliminary decision for this project was made on November 3, 2011. A summary of the comments and the District's response to each comment is included with the Renewed Final Title V Permit and public notice to be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Attachments

cc: Kamaljit Sran, Permit Services Engineer

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**JAN 24 2012**

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

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

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Tricor Refining, LLC. The preliminary decision for this project was made on November 3, 2011. A summary of the comments and the District's response to each comment is included with the Renewed Final Title V Permit and public notice to be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Attachments

cc: Kamaljit Sran, Permit Services Engineer

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Bakersfield Californian

**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT  
NOTICE OF FINAL DECISION TO ISSUE  
RENEWED FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the renewed Federally Mandated Operating Permit to Tricor Refining, LLC for its petroleum refining operation located at 1134 Manor Street in Oildale, 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](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. For additional information regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

# SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

## TRICOR REFINING, LLC

### TITLE V PERMIT RENEWAL STATEMENT OF BASIS

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# TITLE V PERMIT RENEWAL EVALUATION

## Petroleum Refining Operation

**Engineer:** Kamaljit Sran  
**Date:** January 20, 2012

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

**Contact Person:** Jeffery Beecher  
**Phone:** (661) 852-2517

**Responsible Official:** Merle Menghini  
**Title:** Refinery Manager

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

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## 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.

On October 1, 2011, the District issued public notice of its preliminary decision to issue the renewed Title V permit for this facility. In accordance with District Rule 2520, copies of the proposed permit and evaluation were forwarded to the facility, US EPA, and the California Air Resources Board. Copies were also made

available for public review. The notice of District's preliminary decision was published in The Bakersfield Californian (newspaper of general circulation in Kern County) on November 3, 2011. During the review period that followed the notice of preliminary decision, the District received facility comments. Responses to these comments provided as Attachment F.

## II. FACILITY LOCATION

The Tricor Refining operation is located at 1134 Manor Street in Oildale, 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 (PM<sub>10</sub>) 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 be 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:

<b>Old Rule Section</b>	<b>Corrected Rule Section</b>
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<sub>x</sub> and CO Emissions Limits**

<b>Catagory</b>	<b>NO<sub>x</sub> Limit</b>	<b>CO Limit</b>
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<sub>x</sub>, CO and O<sub>2</sub>, 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<sub>x</sub>, CO, and O<sub>2</sub> 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<sub>x</sub> 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 NOx 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 SO<sub>2</sub> emissions by at least 95% by weight; or limit exhaust SO<sub>2</sub> to less than or equal to 9 ppmv corrected to 3.0 % O<sub>2</sub>.

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.

Conditions 44 through 70 of the facility-Wide Requirements 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<sub>x</sub>), 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 (SO<sub>2</sub>) 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 (H<sub>2</sub>S) 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 SO<sub>2</sub> monitor, an instrument for continuously monitoring and recording the concentration (dry basis) of H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device. The performance evaluations for this H<sub>2</sub>S 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**

- a. S-44-14-2, 71 HP Diesel Fired Emergency IC Engine
- b. S-44-15-2, 91 HP Diesel Fired Emergency IC Engine
- c. S-44-141-3, 609 HP Diesel Fired Emergency IC Engine
- d. 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. <sup>2</sup>	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. <sup>2</sup>	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

<sup>2</sup>If 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 conditions 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.
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Existing condition10 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 stationoary 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 condition14 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<sub>x</sub> burner and has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. This unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, 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<sub>x</sub> burner with flue gas recirculation (FGR) to control NO<sub>x</sub> 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 be 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<sub>x</sub>, SO<sub>x</sub>, 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 PM<sub>10</sub>, 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. Renewed Title V Operating Permit

- B. Expired Title V Operating Permit
- C. Detailed Facility List
- D. Current District Rule SIP Comparison
- E. District's responses to facility requested changes
- F. District's Responses to EPA Comments
- G. District's responses to Facility Comments

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# ATTACHMENT A

## Renewed Title V Operating Permit

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**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

# Permit to Operate

**FACILITY:** S-44

**EXPIRATION DATE:** 08/31/2016

**LEGAL OWNER OR OPERATOR:**  
**MAILING ADDRESS:**

TRICOR REFINING, LLC  
PO BOX 5877  
BAKERSFIELD, CA 93308

**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.

**Seyed Sadredin**  
Executive Director / APCO

**David Warner**  
Director of Permit Services

# San Joaquin Valley Air Pollution Control District

FACILITY: S-44-0-2

EXPIRATION DATE: 08/31/2016

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

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10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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



23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. Sum of annual emissions from heaters and boilers listed on permits S-44-1, -2, -3, -4, -5, -6 and -13 shall not exceed any of the the following: NOx - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM10 - 18.10 tpy or SOx - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
43. A component shall be considered leaking if one or more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of District Rule 4455 (adopted 4/20/05) exist at the facility. A leak is the dripping of VOC-containing liquid or the detection of a concentration of total organic compound, above background, determined according to the test method specified in Section 6.4.1 that exceeds the limits in Table 1, Sections 3.22.1 and Section 3.22.2 of District Rule 4455. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from a component into a container is not considered a leak provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 3.22] Federally Enforceable Through Title V Permit
44. The operator shall not use any component that leaks in excess of the allowable leak standards of District Rule 4455 (adopted 4/20/05), or is found to be in violation of the provisions specified in Section 5.1.3. A component identified as leaking in excess of an allowable leak standard may be used provided it has been identified with a tag for repair, has been repaired, or is awaiting re-inspection after repair, within the applicable time period specified within the rule. [District Rule Rule 4455, 5.1.1] Federally Enforceable Through Title V Permit
45. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 5.1.2] Federally Enforceable Through Title V Permit
46. The operator shall be in violation of Rule 4455 (adopted 4/20/05) if any District inspection demonstrates that one or more of the conditions in Sections 5.1.4 exist at the facility. [District Rule 4455, 5.1.3.1] Federally Enforceable Through Title V Permit

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47. Except for annual operator inspection described in Section 5.1.3.2.3, District Rule 4455 (adopted 4/20/05), any operator inspection that demonstrates that one or more of the conditions in Section 5.1.4, District Rule 4455, exist at the facility shall not constitute a violation of District Rule 4455 if the leaking components are repaired as soon as practicable but not later than the time frame specified in District Rule 4455. Such components shall not be counted towards determination of compliance with the provisions of Section 5.1.4. [District Rule 4455, 5.1.3.2.1] Federally Enforceable Through Title V Permit
48. Leaking components detected during operator inspection pursuant Section 5.1.3.2.1, District Rule 4455 (adopted 4/20/05) that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in District Rule 4455 shall be counted toward determination of compliance with the provisions of Section 5.1.4. [District Rule 4455, 5.1.3.2.2] Federally Enforceable Through Title V Permit
49. Any operator inspection conducted annually for a component type (including operator annual inspections pursuant to Section 5.2.5, 5.2.6, 5.2.7, or 5.2.8) that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall constitute a violation of District Rule 4455 (adopted 4/20/05) regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in District Rule 4455. [District Rule 4455, 5.1.3.2.3] Federally Enforceable Through Title V Permit
50. The operator shall audio-visually inspect for leaks all accessible operating pumps, compressors, and Pressure Relief Devices (PRDs) in service at least once every 24 hours, except when operators do not report to the facility for that given 24 hours. Any identified leak that cannot be immediately repaired shall be reinspected within 24 hours using a portable analyzer. If a leak is found, it shall be repaired as soon as practical but not later than the time frame specified in Table 3 of District Rule 4455 (adopted 4/20/05). [District Rule 4455, 5.2.1 & 5.2.2] Federally Enforceable Through Title V Permit
51. The operator shall inspect all components at least once every calendar quarter, except for inaccessible components, unsafe-to-monitor components and pipes. Inaccessible components, unsafe-to-monitor components and pipes shall be inspected in accordance with the requirements set forth in Sections 5.2.5, 5.2.6, and 5.2.7, District Rule 4455 (adopted 4/20/05). New, replaced, or repaired fittings, flanges and threaded connections shall be inspected immediately after being placed into service. Components shall be inspected using EPA Method 21. [District Rule 4455, 5.2.3, 5.2.4, 5.2.5, 5.2.6 & 5.2.7] Federally Enforceable Through Title V Permit
52. The operator may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually for a component type, provided the operator meets all the criteria specified in Sections 5.2.8.1 through 5.2.8.3, District Rule 4455 (adopted 4/20/05). This approval shall apply to accessible component types, specifically designated by the APCO, except pumps, compressors, and PRDs which shall continue to be inspected on a quarterly basis. [District Rule 4455, 5.2.8] Federally Enforceable Through Title V Permit
53. An annual inspection frequency approved by the APCO shall revert to quarterly inspection frequency for a component type if either the operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2 and 5.3 of District Rule 4455 (adopted 4/20/05) exists for that component type, or the APCO issued a Notice of Violation for violating any of the provisions of District Rule 4455 during the annual inspection period for that component type. When the inspection frequency changes from annual to quarterly inspections, the operator shall notify the APCO in writing within five (5) calendar days after changing the inspection frequency, giving the reason(s) and date of change to quarterly inspection frequency. [District Rule 4455, 5.2.9 & 5.2.10] Federally Enforceable Through Title V Permit
54. The operator shall initially inspect a process PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the time of the release. To insure that the process PRD is operating properly, and is leak-free, the operator shall re-inspect the process PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the release using EPA Method 21. If the process PRD is found to be leaking at either inspection, the PRD leak shall be treated as if the leak was found during quarterly operator inspections. [District Rule 4455, 5.2.11] Federally Enforceable Through Title V Permit
55. Except for process PRD, a component shall be inspected within 15 calendar days after repairing the leak or replacing the component using EPA Method 21. [District Rule 4455, 5.2.12] Federally Enforceable Through Title V Permit

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56. Upon detection of a leaking component, the operator shall affix to that component a weatherproof readily visible tag that contains the information specified in Section 5.3.3 of District Rule 4455 (adopted 4/20/05). The tag shall remain affixed to the component until the leaking component has been repaired or replaced; has been re-inspected using EPA Method 21; and is found to be in compliance with the requirements of District Rule 4455. [District Rule 4455, 5.3.1 5.3.2 and 5.3.3] Federally Enforceable Through Title V Permit
57. An operator shall minimize all component leaks immediately to the extent possible, but not later than one (1) hour after detection of leaks in order to stop or reduce leakage to the atmosphere. [District Rule 4455, 5.3.4] Federally Enforceable Through Title V Permit
58. If the leak has been minimized but the leak still exceeds the applicable leak standards of District Rule 4455 (adopted 4/20/05), an operator shall repair or replace the leaking component, vent the leaking component to a closed vent system, or remove the leaking component from operation as soon as practicable but not later than the time period specified in Table 3. For each calendar quarter, the operator may be allowed to extend the repair period as specified in Table 3, for a total number of leaking components, not to exceed 0.05 percent of the number of components inspected, by type, rounded upward to the nearest integer where required. [District Rule 4455, 5.3.5] Federally Enforceable Through Title V Permit
59. If the leaking component is an essential component or a critical component and which cannot be immediately shut down for repairs, the operator shall minimize the leak within one hour after detection of the leak. If the leak has been minimized, but the leak still exceeds any of the applicable leak standards of District Rule 4455 (adopted 4/20/05), the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4455 5.3.6] Federally Enforceable Through Title V Permit
60. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or any combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall comply with at least one of the requirements specified in Sections 5.3.7.1, 5.3.7.2, 5.3.7.3, or 5.3.7.4 of District Rule 4455 (adopted 4/20/05) by the applicable deadlines specified in Sections 5.3.7.5 and 5.3.7.6. If the original leaking component is replaced with a new like-in-kind component before incurring five repair actions for major leaks within 12-consecutive months, the repair count shall start over for the new component. An entire compressor or pump need not be replaced provided the compressor part(s) or pump part(s) that have incurred five repair actions as described in Section 5.3.7 are brought into compliance with at least one of the requirements of Sections 5.3.7.1 through 5.3.7.6. [District Rule 4455, 5.3.7] Federally Enforceable Through Title V Permit
61. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the APCO that enables an operator or District personnel to locate each individual component. The operator shall replace tags or labels that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. The operator shall comply with the requirements of Sections 6.1.4 of District Rule 4455 (adopted 4/20/05) if there is any change in the description of major components or critical components. [District Rule 4455, 5.5.1 & 5.5.2] Federally Enforceable Through Title V Permit
62. The operator shall keep a copy of the operator management plan at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved operator management plan. [District Rule 4455, 6.1.2 & 6.1.4] Federally Enforceable Through Title V Permit

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63. The operator shall maintain an inspection log containing, at a minimum, 1) total number of components inspected, and total number and percentage of leaking components found by component types, 2) location, type, name or description of each leaking component, and description of any unit where the leaking component is found, 3) date of leak detection and method of leak detection, 4) for gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak, 5) date of repair, replacement, or removal from operation of leaking components, 6) identification and location of essential component and critical components found leaking that cannot be repaired until the next process unit turnaround or not later one year after leak detection, whichever comes earlier, 7) methods used to minimize the leak from essential components and critical components that cannot be repaired until the next process unit turnaround or not later one year after leak detection, whichever comes earlier, 8) after the component is repaired or is replaced, the date of reinspection and the leak concentration in ppmv, 9) inspector's name, business mailing address, and business telephone number, and 10) the facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log. [District Rule 4455, 6.2.1] Federally Enforceable Through Title V Permit
64. Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, analyzer reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration. [District Rule 4455, 6.2.3] Federally Enforceable Through Title V Permit
65. The operator shall notify the APCO, by telephone or other methods approved by the APCO, of any process PRD release described in Sections 5.4.4 and 5.4.5 of District Rule 4455 (adopted 4/20/05) and any release in excess of the reportable quantity limits as stipulated in 40 CFR, Part 117, Part 302 and Part 355, including any release in excess of 100 pounds of VOC, within one hour of such occurrence or within one hour of the time said person knew or reasonably should have known of its occurrence. [District Rule 4455, 6.3.1] Federally Enforceable Through Title V Permit
66. Copies of all records shall be retained for a minimum of five (5) years after the date of an entry. Such records shall be made available to the APCO, ARB, or US EPA upon request. [District Rule 4455, 6.2.2, 6.2.3 & 6.2.4] Federally Enforceable Through Title V Permit
67. Measurements of gaseous leak concentrations shall be conducted according to US EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in US EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. [District Rule 4455, 6.4.1] Federally Enforceable Through Title V Permit
68. The VOC content shall be determined using American Society of Testing and Materials (ASTM) D 1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4455, 6.4.2] Federally Enforceable Through Title V Permit
69. The percent by volume liquid evaporated at 150 °C shall be determined using ASTM D 86. [District Rule 4455, 6.4.3] Federally Enforceable Through Title V Permit
70. For a given process unit, an owner or operator may elect to comply with the requirements of §60.592 (b)(1), (2), or (3) as an alternative to the requirements in §60.482-7. [40 CFR 60.592(b)] Federally Enforceable Through Title V Permit
71. Compressors in hydrogen service are exempt from the requirements of §60.592 if an owner or operator demonstrates that a compressor is in hydrogen service. [40 CFR 60.593(b)(1)] Federally Enforceable Through Title V Permit
72. Each compressor is presumed not to be in hydrogen service unless an owner or operator demonstrates that the piece of equipment is in hydrogen service. For a piece of equipment to be considered in hydrogen service, it must be determined that the percent hydrogen content can be reasonably expected always to exceed 50 percent by volume. For purposes of determining the percent hydrogen content in the process fluid that is contained in or contacts a compressor, procedures that conform to the general method described in ASTM E260-73, 91, or 96, E168-67, 77, or 92, or E169-63, 77, or 93 (incorporated by reference as specified in §60.17) shall be used. [40 CFR 60.593(b)(2)] Federally Enforceable Through Title V Permit

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73. An owner or operator may use engineering judgment rather than procedures in §60.593(b)(2) to demonstrate that the percent content exceeds 50 percent by volume, provided the engineering judgment demonstrates that the content clearly exceeds 50 percent by volume. When an owner or operator and the Administrator do not agree on whether a piece of equipment is in hydrogen service, however, the procedures in §60.593(b)(2) shall be used to resolve the disagreement. If an owner or operator determines that a piece of equipment is in hydrogen service, the determination can be revised only after following the procedures in §60.593(b)(2). [40 CFR 60.593(b)(3)] Federally Enforceable Through Title V Permit
74. Any existing reciprocating compressor that becomes an affected facility under provisions of §60.14 or §60.15 is exempt from §60.482-3(a), (b), (c), (d), (e), and (h) provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of §60.482-3(a), (b), (c), (d), (e), and (h). [40 CFR 60.593(c)] Federally Enforceable Through Title V Permit
75. An owner or operator may use the following provision in addition to §60.485(e): Equipment is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM Method D86-78, 82, 90, 95, or 96 (incorporated by reference as specified in §60.17). [40 CFR 60.593(d)] Federally Enforceable Through Title V Permit
76. Open-ended valves or lines containing asphalt as defined in §60.591 are exempt from the requirements of §60.482-6(a) through (c). [40 CFR 60.593(f)] Federally Enforceable Through Title V Permit
77. Light liquid service shall mean the equipment contains a liquid that meets all of the following conditions: (a) the vapor pressure of one or more of the components is greater than 0.3 kPa at 20 °C as determined by ASTM D 2879, (b) the total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20 °C is equal to or greater than 20 percent by weight, and (c) the fluid is a liquid at operating conditions. In addition, an owner or operator may use the following provision: an equipment is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM D 86. [40 CFR 60.485(e) and 60.593(d)] Federally Enforceable Through Title V Permit
78. Gas/vapor service shall mean the equipment contains process fluids that is in the gaseous state at operating conditions. [40 CFR 60.481] Federally Enforceable Through Title V Permit
79. Heavy liquid service shall mean the equipment is not in gas/vapor service or in light liquid service. [40 CFR 60.481] Federally Enforceable Through Title V Permit
80. Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485(b), except as provided in §60.482-1(c) and (f) and §60.482-2(d), (e), and (f). A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in §60.482-1(c) and (f) and §60.482-2(d), (e), and (f). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. [40 CFR 60.482-2(a)(1) and (b)(1)] Federally Enforceable Through Title V Permit
81. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, except as provided in §60.482-1(f). If there are indications of liquids dripping from the pump seal, the owner or operator shall follow the procedure specified in either paragraph §60.482-2(b)(2)(i) or (ii). This requirement does not apply to a pump that was monitored after a previous weekly inspection if the instrument reading for that monitoring event was less than 10,000 ppm and the pump was not repaired since that monitoring event. [CFR 60.482-2(a)(2) and (b)(2)] Federally Enforceable Through Title V Permit
82. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the practices described in paragraphs §60.482-2(c)(2)(i) and (ii) of this section, where practicable. [40 CFR 60.482-2(c)] Federally Enforceable Through Title V Permit
83. Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (a) of this section, provided the requirements specified in paragraphs §60.482-2(d)(1) through (6). [40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit

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84. Any pump that is designated, as described in §60.486(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs §60.482-2(a), (c), and (d) of this section if the pump has no externally actuated shaft penetrating the pump housing, is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in §60.485(c), and is tested for compliance with paragraph (e)(2) of this section initially upon designation, annually, and at other times requested by the District. [40 CFR 60.482-2(e)] Federally Enforceable Through Title V Permit
85. If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of §60.482-10, it is exempt from paragraphs §60.482-2(a) through (e). [40 CFR 60.482-2(f)] Federally Enforceable Through Title V Permit
86. Any pump that is designated, as described in §60.486(f)(1), as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of paragraphs §60.482-2(a) and (d)(4) through (6) if the owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph §60.482-2(a); and the owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in paragraph §60.482-2(c) if a leak is detected. [40 CFR 60.482-2(g)] Federally Enforceable Through Title V Permit
87. Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs §60.482-2(a)(2) and (d)(4), and the daily requirements of paragraph §60.482-2(d)(5), provided that each pump is visually inspected as often as practicable and at least monthly. [CFR 60.482-2(h)] Federally Enforceable Through Title V Permit
88. Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs §60.482-3(h), (i), and (j). [40 CFR 60.482-3(a)] Federally Enforceable Through Title V Permit
89. Each compressor seal system as required in paragraph §60.482-3(a) shall be operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of §60.482-10; or equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. [40 CFR 60.482-3(b)] Federally Enforceable Through Title V Permit
90. The barrier fluid system shall be in heavy liquid service or shall not be in VOC service. [40 CFR 60.482-3(c)] Federally Enforceable Through Title V Permit
91. Each barrier fluid system as described in paragraph §60.482-3(a) shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both. Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined, a leak is detected. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [40 CFR 60.482-3(d), (e), (f), and (g)] Federally Enforceable Through Title V Permit
92. A compressor is exempt from the requirements of paragraphs §60.482-3(a) and (b), if it is equipped with a closed vent system to capture and transport leakage from the compressor drive shaft back to a process or fuel gas system or to a control device that complies with the requirements of §60.482-10, except as provided in paragraph §60.482-3(i). [40 CFR 60.482-3(h)] Federally Enforceable Through Title V Permit

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93. Any compressor that is designated, as described in §60.486(e) (1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs §60.482-3(a)-(h) if the compressor is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in §60.485(c); and is tested for compliance initially upon designation, annually, and at other times requested by the District. [40 CFR 60.482-3(i)] Federally Enforceable Through Title V Permit
94. Any existing reciprocating compressor in a process unit which becomes an affected facility under provisions of §60.14 or §60.15 is exempt from paragraphs §60.482-3(a) through (e) and (h), provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of paragraphs §60.482-3 (a) through (e) and (h). [40 CFR 60.482-3(j)] Federally Enforceable Through Title V Permit
95. Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485(c). [40 CFR 60.482-4(a)] Federally Enforceable Through Title V Permit
96. After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in §60.482-9. No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in §60.485(c). [40 CFR 60.482-4(b)] Federally Enforceable Through Title V Permit
97. Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in §60.482-10 is exempted from the requirements of paragraphs §60.482-4(a) and (b). [40 CFR 60.482-4(c)] Federally Enforceable Through Title V Permit
98. Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the requirements of paragraphs §60.482-4(a) and (b), provided the owner or operator, after each pressure release, installs a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in §60.482-9. [40 CFR 60.482-4(d)] Federally Enforceable Through Title V Permit
99. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and §60.482-5(c). [40 CFR 60.482-5(a)] Federally Enforceable Through Title V Permit
100. Each closed-purge, closed-loop, or closed-vent system as required in §60.482-5(a) shall comply with the requirements specified in §60.482-5(b)(1) through (4). [40 CFR 60.482-5(b)] Federally Enforceable Through Title V Permit
101. In situ sampling systems and sampling systems without purges are exempt from the requirements of paragraphs §60.482-5(a) and (b). [40 CFR 60.482-5(c)] Federally Enforceable Through Title V Permit
102. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1(c) and §60.482-6(d) and (e). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. [40 CFR 60.482-6(a)] Federally Enforceable Through Title V Permit
103. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6(b)] Federally Enforceable Through Title V Permit
104. When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with §60.482-6(a) at all other times. [40 CFR 60.482-6(c)] Federally Enforceable Through Title V Permit
105. Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of §60.482-6(a), (b) and (c). [40 CFR 60.482-6(d)] Federally Enforceable Through Title V Permit

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106. Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in §60.482-6(a) through (c) are exempt from the requirements of §60.482-6(a) through (c) of this section. [40 CFR 60.482-6(e)] Federally Enforceable Through Title V Permit
107. Each valve in gas/vapor service and in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485(b) and shall comply with §60.482-7(b) through (e), except as provided in §60.482-7(f), (g), and (h), §60.482-1(c) and (f), and §60.483-1 and §60.483-2. A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for the process unit must be monitored according to §60.482-7(a)(2)(i) or (ii), except for a valve that replaces a leaking valve and except as provided in §60.482-7(f), (g), and (h), §60.482-1(c), §60.483-1, and §60.483-2. [40 CFR 60.482-7(a)] Federally Enforceable Through Title V Permit
108. If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors, the owner or operator shall follow either one of the following procedures: (1) The owner or operator shall monitor the equipment within 5 days by the method specified in §60.485(b) and shall comply with the requirements of §60.482-8(b) through (d). (2) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection. [40 CFR 60.482-8(a)] Federally Enforceable Through Title V Permit
109. Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit. [40 CFR 60.482-9(a)] Federally Enforceable Through Title V Permit
110. Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service. [40 CFR 60.482-9(b)] Federally Enforceable Through Title V Permit
111. Delay of repair for valves will be allowed if the owner or operator demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with §60.482-10. [40 CFR 60.482-9(c)] Federally Enforceable Through Title V Permit
112. Delay of repair for pumps will be allowed if repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and repair is completed as soon as practicable, but not later than 6 months after the leak was detected. [40 CFR 60.482-9(d)] Federally Enforceable Through Title V Permit
113. Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown. [40 CFR 60.482-9(e)] Federally Enforceable Through Title V Permit
114. When delay of repair is allowed for a leaking pump or valve that remains in service, the pump or valve may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition. [40 CFR 60.482-9(f)] Federally Enforceable Through Title V Permit
115. Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent. [40 CFR 60.482-10(b)] Federally Enforceable Through Title V Permit
116. Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C. [40 CFR 60.482-10(c)] Federally Enforceable Through Title V Permit
117. Flares used to comply with this subpart shall comply with the requirements of §60.18. [40 CFR 60.482-10(d)] Federally Enforceable Through Title V Permit
118. Owners or operators of control devices shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. [40 CFR 60.482-10(e)] Federally Enforceable Through Title V Permit

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119. Except as provided in §60.482-10(i) through (k), each closed vent system shall be inspected according to the procedures and schedule specified in §60.482-10(f)(1) and (f)(2). [40 CFR 60.482-10(f)] Federally Enforceable Through Title V Permit
120. Leaks in closed vent systems and control devices, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practicable except as provided in §60.482-10(h). A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 15 calendar days after the leak is detected. [40 CFR 60.482-10(g)] Federally Enforceable Through Title V Permit
121. Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown. [40 CFR 60.482-10(h)] Federally Enforceable Through Title V Permit
122. If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2). [40 CFR 60.482-10(i)] Federally Enforceable Through Title V Permit
123. Any parts of the closed vent system that are designated, as described in §60.482-10(l)(1) of this section, as unsafe to inspect are exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2) if they comply with the following requirements: (1) The owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with §60.482-10(f)(1)(i) or (f)(2); and (2) The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. [40 CFR 60.482-10(j)] Federally Enforceable Through Title V Permit
124. Any parts of the closed vent system that are designated, as described in §60.482-10(l)(2), as difficult to inspect are exempt from the inspection requirements of §60.482-10(f)(1)(i) and (f)(2) if they comply with the following requirements: (1) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and (2) The process unit within which the closed vent system is located becomes an affected facility through §60.14 or §60.15, or the owner or operator designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and (3) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum. [40 CFR 60.482-10(k)] Federally Enforceable Through Title V Permit
125. The owner or operator shall record the following information: (1) Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment. (2) Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment. (3) For each inspection during which a leak is detected, a record of the information specified in §60.486(c). (4) For each inspection conducted in accordance with §60.485(b) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. (5) For each visual inspection conducted in accordance with §60.482-10(f)(1)(ii) of this section during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 60.482-10(l)]
126. Closed vent systems and control devices used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them. [40 CFR 60.482-10(m)] Federally Enforceable Through Title V Permit
127. The owner or operator shall determine compliance with the standards in §60.482-1 through §60.482-10, §60.483, and §60.484 as follows: EPA Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in EPA Method 21. The following calibration gases shall be used: zero air (less than 10 ppm of hydrocarbon in air); and a mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [40 CFR 60.485(b)] Federally Enforceable Through Title V Permit

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128. The owner or operator shall determine compliance with the no detectable emission standards in §60.482-2(e), §60.482-3(i), §60.482-4, §60.482-7(f), and §60.482-10(e) as follows: (1) The requirements of §60.485(b) shall apply and (2) EPA Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance. [40 CFR 60.485(c)] Federally Enforceable Through Title V Permit
129. The owner or operator shall test each piece of equipment unless he demonstrates that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used: (1) Procedures that conform to the general methods in ASTM E260-73, 91, or 96, E168-67, 77, or 92, E169-63, 77, or 93 (incorporated by reference-see §60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment, (2) Organic compounds that are considered by the District to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid, (3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the District disagrees with the judgment, §60.485(d) (1) and (2) shall be used to resolve the disagreement. [40 CFR 60.485(d)] Federally Enforceable Through Title V Permit
130. The owner or operator shall demonstrate that a piece of equipment is in light liquid service by showing that all the following conditions apply: (1) The vapor pressure of one or more of the organic components is greater than 0.3 kPa at 20 °C (1.2 in. H<sub>2</sub>O 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. H<sub>2</sub>O at 68 °F) is equal to or greater than 20 percent by weight, (3) The fluid is a liquid at operating conditions. [40 CFR 60.485(e)] Federally Enforceable Through Title V Permit
131. Samples used in conjunction with §60.485(d), (e), and (g) shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare. [40 CFR 60.485(f)] Federally Enforceable Through Title V Permit
132. The owner or operator shall determine compliance with the standards of flares as stated in §60.485(g). [40 CFR 60.485(g)] Federally Enforceable Through Title V Permit
133. The owner or operator shall determine compliance with §60.483-1 or §60.483-2 as follows: (1) The percent of valves leaking shall be determined using the following equation:  $\%VL = (VL/VT) * 100$ , Where: %VL= Percent leaking valves, VL= Number of valves found leaking, VT= The sum of the total number of valves monitored, (2) The total number of valves monitored shall include difficult-to-monitor and unsafe-to-monitor valves only during the monitoring period in which those valves are monitored, (3) The number of valves leaking shall include valves for which repair has been delayed, (4) Any new valve that is not monitored within 30 days of being placed in service shall be included in the number of valves leaking and the total number of valves monitored for the monitoring period in which the valve is placed in service, (5) If the process unit has been subdivided in accordance with §60.482-7(c)(1)(ii), the sum of valves found leaking during a monitoring period includes all subgroups, (6) The total number of valves monitored does not include a valve monitored to verify repair. [40 CFR 60.485(h)] Federally Enforceable Through Title V Permit
134. An owner or operator of more than one affected facility subject to the provisions of this subpart may comply with the recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(2)] Federally Enforceable Through Title V Permit
135. When each leak is detected as specified in §60.482-2, §60.482-3, §60.482-7, §60.482-8, and §60.483-2 the following requirements apply: (1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment; (2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in §60.482-7(c) and no leak has been detected during those 2 months; (3) The identification on equipment except on a valve, may be removed after it has been repaired. [40 CFR 60.486(b)] Federally Enforceable Through Title V Permit

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136. When each leak is detected the following information shall be recorded in a log and kept in a readily accessible location: (1) The instrument and operator identification numbers and the equipment identification number; (2) The date the leak was detected and the dates of each attempt to repair the leak; (3) Repair methods applied in each attempt to repair the leak; (4) "Above 10,000" if the maximum instrument reading measured by the methods specified in §60.485(a) after each repair attempt is equal to or greater than 10,000 ppm; (5) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak; (6) The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown; (7) The expected date of successful repair of the leak if a leak is not repaired within 15 days; (8) Dates of process unit shutdowns that occur while the equipment is unrepaired; (9) The date of successful repair of the leak. [40 CFR 60.486(c)] Federally Enforceable Through Title V Permit
137. The following information pertaining to the design requirements for closed vent systems and control devices described in §60.482-10 shall be recorded and kept in a readily accessible location: (1) Detailed schematics, design specifications, and piping and instrumentation diagrams; (2) The dates and descriptions of any changes in the design specifications; (3) A description of the parameter or parameters monitored, as required in §60.482-10(e), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring; (4) Periods when the closed vent systems and control devices required in §60.482-2, §60.482-3, §60.482-4, and §60.482-5 are not operated as designed, including periods when a flare pilot light does not have a flame; and (5) Dates of startups and shutdowns of the closed vent systems and control devices required in §60.482-2, §60.482-3, §60.482-4, and §60.482-5. [40 CFR 60.486(d)] Federally Enforceable Through Title V Permit
138. The following information pertaining to all equipment subject to the requirements in §60.482-1 to §60.482-10 shall be recorded in a log that is kept in a readily accessible location: (1) A list of identification numbers for equipment subject to the requirements of this subpart; (2) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of §60.482-2(e), §60.482-3(i) and §60.482-7(f) and the designation of equipment as subject to the requirements of §60.482-2(e), §60.482-3(i), or §60.482-7(f) shall be signed by the owner or operator. Alternatively, the owner or operator may establish a mechanism with their permitting authority that satisfies this requirement; (3) A list of equipment identification numbers for pressure relief devices required to comply with §60.482-4; (4) The dates of each compliance test as required in §60.482-2(e), §60.482-3(i), §60.482-4, and §60.482-7(f), the background level measured during each compliance test, and the maximum instrument reading measured at the equipment during each compliance test; (5) A list of identification numbers for equipment in vacuum service; (6) A list of identification numbers for equipment that the owner or operator designates as operating in VOC service less than 300 hr/yr in accordance with §60.482-1(e), a description of the conditions under which the equipment is in VOC service, and rationale supporting the designation that it is in VOC service less than 300 hr/yr. [40 CFR 60.486(e)] Federally Enforceable Through Title V Permit
139. The following information pertaining to all valves subject to the requirements of §60.482-7(g) and (h) and to all pumps subject to the requirements of §60.482-2(g) shall be recorded in a log that is kept in a readily accessible location: (1) A list of identification numbers for valves and pumps that are designated as unsafe-to-monitor, an explanation for each valve or pump stating why the valve or pump is unsafe-to-monitor, and the plan for monitoring each valve or pump; (2) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve. [40 CFR 60.486(f)] Federally Enforceable Through Title V Permit
140. The following information shall be recorded for valves complying with §60.483-2: (1) A schedule of monitoring. (2) The percent of valves found leaking during each monitoring period. [40 CFR 60.486(g)] Federally Enforceable Through Title V Permit
141. The following information shall be recorded in a log that is kept in a readily accessible location: (1) Design criterion required in §60.482-2(d)(5) and §60.482-3(e)(2) and explanation of the design criterion; and (2) Any changes to this criterion and the reasons for the changes. [40 CFR 60.486(h)] Federally Enforceable Through Title V Permit
142. Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location. [40 CFR 60.486(j)] Federally Enforceable Through Title V Permit

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143. All semiannual reports to the District shall include the following information: (1) Process unit identification. (2) For each month during the semiannual reporting period, number of valves for which leaks were detected as described in §60.482-7(b) or §60.483-2, number of valves for which leaks were not repaired as required in §60.482-7(d)(1), number of pumps for which leaks were detected as described in §60.482-2(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii), number of pumps for which leaks were not repaired as required in §60.482-2(c)(1) and (d)(6), number of compressors for which leaks were detected as described in §60.482-3(f), number of compressors for which leaks were not repaired as required in §60.482-3(g)(1), and the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible. (3) Dates of process unit shutdowns which occurred within the semiannual reporting period. (4) Revisions to items reported according to paragraph (b) if changes have occurred since the initial report or subsequent revisions to the initial report. [40 CFR 60.487(c)] Federally Enforceable Through Title V Permit
144. An owner or operator electing to comply with the provisions of §60.483-1 or §60.483-2 shall notify the District of the alternative standard selected 90 days before implementing either of the provisions. [40 CFR 60.487(d)] Federally Enforceable Through Title V Permit
145. An owner or operator shall report the results of all performance tests in accordance with §60.8 of the General Provisions. The provisions of §60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the District of the schedule for the initial performance tests at least 30 days before the initial performance tests. [40 CFR 60.487(e)] Federally Enforceable Through Title V Permit
146. The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of paragraphs (a) through (c) of this section, provided that they comply with the requirements established by the State. [40 CFR 60.487(f)] Federally Enforceable Through Title V Permit
147. Each drain, receiving refinery wastewater from a process unit, shall be equipped with water seal controls. [40 CFR 60.692-2(a)(1)] Federally Enforceable Through Title V Permit
148. Each drain in active service, receiving refinery wastewater from a process unit, shall be checked by visual or physical inspection initially and monthly thereafter for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. [40 CFR 60.692-2(a)(2)] Federally Enforceable Through Title V Permit
149. Each drain out of active service shall be checked by visual or physical inspection initially and weekly thereafter for indications of low water levels or other problems that could result in VOC emissions. As an alternative, the owner or operator may elect to install a tightly sealed cap or plug over a drain that is out of service, inspection shall be conducted initially and semiannually to ensure caps or plugs are in place and properly installed. Whenever low water levels or missing or improperly installed caps or plugs are identified, water shall be added or first efforts at repair shall be made as soon as practicable, but not later than 24 hours after detection, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown [40 CFR 60.692-2(a) and 60.692-6] Federally Enforceable Through Title V Permit
150. Junction boxes in refinery wastewater systems shall be equipped with a cover and may have an open vent pipe. The vent pipe shall be at least 90 cm (3 ft) in length and shall not exceed 10.2 cm (4 in) in diameter. Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance. [40 CFR 60.692-2(b)(1)] Federally Enforceable Through Title V Permit
151. Junction boxes in refinery wastewater systems shall be visually inspected initially and semiannually thereafter to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge. If a broken seal or gap is identified, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown. [40 CFR 60.692-2(b)(3)(4) and 60.692-6] Federally Enforceable Through Title V Permit

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

152. Sewer lines, conveying refinery wastewater to wastewater treatment system, shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. [40 CFR 60.692-2(c)(1)] Federally Enforceable Through Title V Permit
153. The portion of each unburied sewer line shall be visually inspected initially and semiannually thereafter for indication of cracks, gaps, or other problems that could result in VOC emissions. Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification, except if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repair of such equipment shall occur before the end of the next refinery or process unit shutdown. [40 CFR 60.692-2(c)(2)(3) and 60.692-6] Federally Enforceable Through Title V Permit
154. Refinery wastewater routed through new process drains and a new first common downstream junction box, either as part of a new individual drain system or an existing individual drain system, shall not be routed through a downstream catch basin. [40 CFR 60.692-2(e)] Federally Enforceable Through Title V Permit
155. Operators shall not depressurize any vessel containing VOCs unless the process unit turnaround is accomplished by employing one of the following operating procedures: The organic vapors shall either be recovered, added to the refinery fuel gas system and combusted; or controlled and piped to an appropriate firebox or incinerated for combustion; or flared, until the pressure within the process vessel is as close to atmospheric pressure as is possible. All process vessels shall be depressurized into the control facilities to less than 1020 mm Hg (5 psig) before venting/opening to atmosphere. All organic compounds which emerge from a refinery process vessel during the purging of said vessel and which otherwise would be emitted to the atmosphere shall be either directed to a flare or incinerator or shall be used for fuel until such disposition of emissions is not technically feasible or is less safe than atmospheric venting. [District Rule 4454, 4.0] Federally Enforceable Through Title V Permit
156. The operator shall not manufacture for sale nor use within the District any of the following for penetrating prime coat, tack coat, dust palliative, or other paving and maintenance operations: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt which as produced for application, contains more than one-half (0.5) percent of organic compounds which evaporate at 500 degrees Fahrenheit or lower; emulsified asphalt containing organic compounds, in excess of three (3) percent by volume, which evaporate at 500 degrees Fahrenheit or lower. [District Rule 4641, 5.0] Federally Enforceable Through Title V Permit
157. The manufacturer of cutback and slow cure asphalt shall maintain records showing the types and amounts of cutback asphalt and slow cure asphalt which contain organic compounds produced and the destination of these products. Such records shall be maintained daily and retained and available for inspection by District personnel for a period of 5 years. [District Rule 4641, 6.0] Federally Enforceable Through Title V Permit
158. Analysis of cutback asphalt sample for VOC content shall be in accordance with ASTM Method D402. [District Rule 4641, 6.2.1] Federally Enforceable Through Title V Permit
159. The owner or operator shall maintain records of fluids used in each process in the facility. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
160. The owner or operator shall maintain records of the source of the crude oil received by the facility. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
161. On December 31, 2012, the initial Title V permit was renewed. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days of the end of each reporting period. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-1-17

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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<sub>x</sub> - 0.036 lb/MMBtu, CO - 0.0840, VOC - 0.0055, PM<sub>10</sub> - 0.0076, or SO<sub>x</sub> - 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<sub>x</sub> - 0.052 lb/MMBtu, CO - 0.0365, VOC - 0.0015, PM<sub>10</sub> - 0.0241, or SO<sub>x</sub> - 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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub>, 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> or CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (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

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28. If the NO<sub>x</sub> 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, the measured NO<sub>2</sub> and CO concentrations corrected to 3% O<sub>2</sub>, and the O<sub>2</sub> 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<sub>x</sub> 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub>) 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 NO<sub>2</sub>/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<sub>x</sub>) emissions from each heater shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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-44-2-22

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

SOLVENT EXTRACTION PLANT INCLUDING AIR STRIPPER, TWO ROTATING DISC COLUMNS, AND 40 MMBTU/HR SOLVENT PLANT VERTICAL CYLINDRICAL TYPE HOT OIL HEATER

## PERMIT UNIT REQUIREMENTS

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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: NOx - 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 SOx - 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: 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
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 NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

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<sub>x</sub> 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 (O<sub>2</sub>) 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<sub>x</sub>, CO, and O<sub>2</sub> 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<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (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% CO<sub>2</sub>, 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<sub>x</sub> 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<sub>x</sub>) 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 NO<sub>2</sub>/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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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 contracts 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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-3-18

**EXPIRATION DATE:** 08/31/2016

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

## **EQUIPMENT DESCRIPTION:**

DORMANT LUBE OIL FINISHING PLANT INCLUDING 6 MMBTU/HR CHARGE VERTICAL CYLINDRICAL HEATER, TWO HYDROGEN REACTORS, TWO COMPRESSORS, SEPARATORS, FLASH POT, AMINE TREATER WITH RECEIVER AND REGENERATOR, H<sub>2</sub>S PRODUCT STRIPPER (3-D-51), STRIPPER ACCUMULATOR, UTILITY FRACTIONATOR COLUMN (D-11) (SHARED WITH S-44-4), AND H<sub>2</sub>S SCRUBBER AND FLARE SERVING HYDROGEN RICH WASTE GAS STREAM

## **PERMIT UNIT REQUIREMENTS**

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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. H<sub>2</sub>S product stripper column includes vapor piping to H<sub>2</sub>S 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<sub>x</sub>/MMBtu, 0.0840 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, or 0.0143 lb-SO<sub>x</sub>/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<sub>x</sub>/MMBtu, 0.0365 lb-CO/MMBtu, 0.0015 lb-VOC/MMBtu, 0.0241 lb-PM<sub>10</sub>/MMBtu, or 0.0518 lb-SO<sub>x</sub>/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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 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% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] 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-44-4-16

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-NO<sub>x</sub>/MMBtu, 0.084 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 PM<sub>10</sub>/MMBtu, or 0.00285 lb-SO<sub>x</sub>/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: NO<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 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 NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> or CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> 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 NO<sub>x</sub> 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<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (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<sub>x</sub> 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, the measured NO<sub>2</sub> and CO concentrations corrected to 3% O<sub>2</sub>, and the O<sub>2</sub> 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub>) 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 NO<sub>2</sub>/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<sub>x</sub>) emissions from each heater shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-5-12

EXPIRATION DATE: 08/31/2016

SECTION: 07 TOWNSHIP: 29S RANGE: 27E

## EQUIPMENT DESCRIPTION:

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

## PERMIT UNIT REQUIREMENTS

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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<sub>x</sub> (as NO<sub>2</sub>): 25 ppmv @3% O<sub>2</sub> or 0.031 lb/MMBtu, CO: 400 ppmv @ 3% O<sub>2</sub> 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-PM<sub>10</sub>/MMBtu, or 0.0006 lb-SO<sub>x</sub>/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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
8. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
9. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
10. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
11. NO<sub>x</sub> 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
13. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. Permittee shall maintain accurate records of fuel type, daily fuel consumption, annual fuel consumption and annual emissions from the boiler, and shall make such records available for District inspection for five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit

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

24. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit
26. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
27. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub>. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit
28. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or EPA Method 6; or CARB Method 1-100; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 4305 and 4306, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit
32. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 4801] Federally Enforceable Through Title V Permit
33. Nitrogen oxide (NO<sub>x</sub>) 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 NO<sub>2</sub>/MMBtu of heat input (hhv). [District Rules 4305 and 4306, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit
34. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit
35. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NO<sub>x</sub> 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.



36. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO<sub>x</sub> 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<sub>x</sub> emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305 and 4306, 6.3.2 and 4351, 6.3] Federally Enforceable Through Title V Permit
37. The following conditions must be met for representative unit(s) to be used to test for NO<sub>x</sub> and CO limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit
38. All units in a group for which representative units are source for NO<sub>x</sub> and CO emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit
39. All units in a group for which representative units are source tested to for NO<sub>x</sub> and CO emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 4305 and 4306, 6.3.2] Federally Enforceable Through Title V Permit
40. The number of representative units source tested for NO<sub>x</sub> and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NO<sub>x</sub> 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<sub>x</sub> emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit
42. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit
43. The permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-6-12

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 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<sub>x</sub>, 95 ppmv @3% O<sub>2</sub> or 0.10 lb/MMBtu, and CO, 400 ppmv @3% O<sub>2</sub>. [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<sub>x</sub>, 147 ppmv @3% O<sub>2</sub> or 0.18 lb/MMBtu, and CO, 400 ppmv @3% O<sub>2</sub>. [District Rule 4305 and 4351] Federally Enforceable Through Title V Permit
15. The retort heater stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (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<sub>x</sub> 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, the measured NO<sub>2</sub> and CO concentrations corrected to 3% O<sub>2</sub>, and the O<sub>2</sub> 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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 (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit
43. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit
44. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-7-4

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10001

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-9-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10002

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-10-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10003

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

420,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10004

## PERMIT UNIT REQUIREMENTS

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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

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-44-13-19

**EXPIRATION DATE:** 08/31/2016

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

## **EQUIPMENT DESCRIPTION:**

DORMANT (COMPLIANT) 100 MMBTU/HR CLEAVER BROOKS BOILER INCLUDING JOHN ZINK LOW NOX BURNER, H<sub>2</sub>S CAUSTIC SCRUBBER, CONTINUOUS H<sub>2</sub>S MONITOR, & BACKUP H<sub>2</sub>S REMOVAL SYSTEM WITH "SULFATREET" ADSORBENT VERTICAL COLUMN FUEL GAS SCRUBBER WITH NOMINAL DIMENSIONS 18' LONG BY 4' DIAMETER

## **PERMIT UNIT REQUIREMENTS**

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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. H<sub>2</sub>S removal system includes two H<sub>2</sub>S 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. H<sub>2</sub>S 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 NO<sub>x</sub> (as NO<sub>2</sub>): 25 ppmvd @3% O<sub>2</sub> or 0.03 lb/MMBtu, and CO: 400 ppmvd @ 3% O<sub>2</sub>. [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: NO<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (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<sub>x</sub> 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<sub>x</sub> 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 (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, 4351] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
24. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 4305, 6.2.1; 4306, 6.2.1, and 4351, 6.2.1] Federally Enforceable Through Title V Permit
26. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Permittee shall maintain accurate records of fuel type, fuel consumption, boiler feedwater/produced steam rate, and annual emissions from the boiler, and shall make such records available for District inspection for five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
29. Permittee shall maintain records of the occurrence of and duration of any startup, shutdown, or malfunction in the operation of the C.B. boiler, or any malfunction of the air pollution control equipment. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The portable analyzer shall be calibrated each day of use with a two-point calibration method (zero and span) at beginning of the day. Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(amended December 16,1993). [District Rule 1081, and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
32. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
33. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
34. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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

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38. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> 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<sub>x</sub> 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 H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H<sub>2</sub>S. The performance evaluations for this H<sub>2</sub>S 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 H<sub>2</sub>S as measured by the H<sub>2</sub>S 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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-14-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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 SO<sub>2</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Nitrogen oxide emission rate shall not exceed 1.87 lb/hr as NO<sub>2</sub>. [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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-15-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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 SO<sub>2</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Nitrogen oxide emission rate shall not exceed 1.98 lb/hr as NO<sub>2</sub>. [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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-16-4

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-17-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

24,738 GALLON FIXED ROOF PETROLEUM STORAGE TANK #602

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-18-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #801

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-19-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #802

## PERMIT UNIT REQUIREMENTS

---

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-20-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-44-21-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #805

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

35,910 GALLON FIXED ROOF PETROLEUM STORAGE TANK #806

## PERMIT UNIT REQUIREMENTS

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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

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

374,178 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9001

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-26-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

415,044 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10008

## PERMIT UNIT REQUIREMENTS

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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

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

473,886 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10017

## PERMIT UNIT REQUIREMENTS

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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

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

474,936 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10018

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-29-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

453,096 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10023

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-30-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17001

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-31-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

708,120 GALLON FIXED ROOF PETROLEUM STORAGE TANK #17002

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-34-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

11,298 GALLON FIXED ROOF PETROLEUM STORAGE TANK #283

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-35-4

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-44-36-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

252,546 GALLON WASTEWATER STORAGE TANK #6001

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-37-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

84,882 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2059

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-41-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

475,062 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10009

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-42-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

40,236 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1065

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-44-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-45-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-46-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-44-47-4

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-48-4

EXPIRATION DATE: 08/31/2016

SECTION: 07 TOWNSHIP: 29S RANGE: 28E

## EQUIPMENT DESCRIPTION:

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

## PERMIT UNIT REQUIREMENTS

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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 organic liquid entering the tank. [District Rule 4623 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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.



# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-44-49-2

EXPIRATION DATE: 08/31/2016

SECTION: 07 TOWNSHIP: 29S RANGE: 28E

**EQUIPMENT DESCRIPTION:**

11,508 GALLON FIXED ROOF PETROLEUM STORAGE TANK #284

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-52-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

35,490 GALLON FIXED ROOF PETROLEUM STORAGE TANK #803

## PERMIT UNIT REQUIREMENTS

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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

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

113,736 GALLON FIXED ROOF STORAGE TANK #2009

## PERMIT UNIT REQUIREMENTS

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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-44-133-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-134-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

---

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-135-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-141-3

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-142-3

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter. [District NSR Rule, District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The permittee shall operate a non-resettable elapsed operating time meter. The owner or operator shall maintain the required meter in proper operating condition. [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
3. This engine shall only be fired on PUC quality natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit
6. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-143-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-44-144-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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-44-145-8

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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. This unit shall be tested for compliance with the SO<sub>x</sub> (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<sub>x</sub> 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<sub>x</sub> emissions expressed as lbs-SO<sub>x</sub>/ton shall be calculated using the exhaust concentration of SO<sub>x</sub> 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 PM<sub>10</sub> (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-44-146-6

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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<sub>x</sub>/day, or 20,550 lb NO<sub>x</sub>/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-44-148-4

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

## **EQUIPMENT DESCRIPTION:**

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

## **PERMIT UNIT REQUIREMENTS**

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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-44-150-3

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

80,000 BBL ASPHALT STORAGE TANK T-80001

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

80,000 BBL ASPHALT STORAGE TANK T-80002

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

80,000 BBL ASPHALT STORAGE TANK T-80003

## PERMIT UNIT REQUIREMENTS

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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

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

80,000 BBL ASPHALT STORAGE TANK T-80004

## PERMIT UNIT REQUIREMENTS

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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-44-156-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

96,000 BBL ASPHALT STORAGE TANK T-96001

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-158-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

10,000 BBL ASPHALT STORAGE TANK TK-10025

## PERMIT UNIT REQUIREMENTS

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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-44-160-2

**EXPIRATION DATE:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5001

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

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

**EQUIPMENT DESCRIPTION:**

211,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5002

## PERMIT UNIT REQUIREMENTS

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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:** 08/31/2016

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-166-2

**EXPIRATION DATE:** 08/31/2016

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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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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# ATTACHMENT B

Expired Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-44-0-1

EXPIRATION DATE: 08/31/2007

## FACILITY-WIDE REQUIREMENTS

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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.

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: 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
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  
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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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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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 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**

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

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28. If the NO<sub>x</sub> 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, the measured NO<sub>2</sub> and CO concentrations corrected to 3% O<sub>2</sub>, and the O<sub>2</sub> 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<sub>x</sub> 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub>) 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 NO<sub>2</sub>/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<sub>x</sub>) emissions from each heater shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-2-21

**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 WITH A ZEECO MODEL GLSF-16 LOW NOX BURNER

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Heater shall only be fired on natural gas or fuel oil. [District Rules 2201 and 4306] Federally Enforceable Through Title V Permit
5. Sulfur content of fuel oil used shall not exceed 0.05% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Solvent plant vertical cylindrical-type heater fuel gas use (not including pilot and waste gas) shall not exceed 36,800 scf/hr on a daily average basis. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
7. 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
8. Heater pilots (three pilots each rated at 65 scf/hr) may be fired on natural gas and waste gas when gas turbine engine (S-73-2) is operating. [District NSR Rule] Federally Enforceable Through Title V Permit
9. 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 NSR Rule] Federally Enforceable Through Title V Permit
10. Permittee shall notify the District in writing within 24 hours upon firing of heaters. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Refinery produced gas shall be treated in H<sub>2</sub>S scrubber listed in S-44-13. [District NSR Rule] Federally Enforceable Through Title V Permit
12. H<sub>2</sub>S content of gas burned shall not exceed 0.1 gr/dscf (161 ppmv) based on a three hour rolling average. [40 CFR 60.104(a)(1)] Federally Enforceable Through Title V Permit
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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14. Refinery produced 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
15. Solvent plant heater (vertical cylindrical type) gas-fired emission rates shall not exceed any of the following: NOx - 30 ppmv @ 3% O2 or 0.036 lb/MMBtu, CO - 400 ppmv @ 3% O2, VOC - 0.0055 lb/MMBtu, PM10 - 0.0076 lb/MMBtu, or SOx - 0.0143 lb/MMBtu. [District Rules 4306 and 4351] Federally Enforceable Through Title V Permit
16. Solvent plant heater oil-fired emission rates shall not exceed any of the following: NOx - 0.1460 lb/MMBtu, CO - 0.0365 lb/MMBtu, VOC - 0.0015 lb/MMBtu, PM10 - 0.0241 lb/MMBtu, or SOx - 0.0518 lb/MMBtu. [District NSR Rule and District Rules 4306 and 4351] 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 NSR Rule] Federally Enforceable Through Title V Permit
18. Solvent plant heater shall only fire on oil during periods of involuntary natural gas curtailment. Heater shall not be fired on oil for more than 166 hours per year plus 48 hours per year for maintenance and testing. [District NSR Rule and District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
19. Source testing to measure NOx and CO emissions from this unit while fired on natural gas shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
20. 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
21. 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
22. 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
23. 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
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
25. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
26. 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
27. 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
28. If the unit is fired on oil as backup fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NOx at least once during that year using an APCO approved portable NOx analyzer. Monitoring for backup fuel NOx emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on backup fuel solely to perform monitoring. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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29. Backup fuel NO<sub>x</sub> 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
30. The permittee shall maintain records of: (1) the date and time of backup fuel NO<sub>x</sub> measurements, (2) the measured backup fuel NO<sub>x</sub> concentration (in ppmv or lb/MMBtu) corrected to 3% O<sub>2</sub>, (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
31. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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
32. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, 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
33. 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
34. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (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
35. Permittee shall maintain accurate records of fuel type and heating value, daily and annual fuel consumption, and annual emissions from heaters. [District NSR Rule] Federally Enforceable Through Title V Permit
36. 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
37. 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
38. 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
39. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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40. 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
41. 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
42. Particulate matter emissions shall not exceed 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
43. 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
44. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub>. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas or on diesel fuel not exceeding 0.5% sulfur by weight; 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
45. 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
46. When complying with SO<sub>x</sub> 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
47. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> 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
48. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> 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
49. 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
50. 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 diesel fuel not exceeding 0.5% sulfur by weight; 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 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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51. Nitrogen oxide (NO<sub>x</sub>) 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 NO<sub>2</sub>/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit
52. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit
53. 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<sub>x</sub> and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
54. The owner or operator shall install an instrument for continuously monitoring and recording the concentration (dry basis) of H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H<sub>2</sub>S. The performance evaluations for this H<sub>2</sub>S 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
55. 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
56. The owner or operator shall report all rolling 3-hour periods during which the average concentration of H<sub>2</sub>S as measured by the H<sub>2</sub>S 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
57. 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
58. Pursuant to Rule 4320, beginning in 2010 the operator shall pay an annual emission fee to the District for NO<sub>x</sub> 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<sub>x</sub> emission limit listed in Rule 4320. [District Rule 4320]
59. 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-44-3-19

**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, H<sub>2</sub>S PRODUCT STRIPPER (3-D-51), STRIPPER ACCUMULATOR, UTILITY FRACTIONATOR COLUMN (D-11) (SHARED WITH S-44-4), AND H<sub>2</sub>S SCRUBBER AND FLARE SERVING HYDROGEN RICH WASTE GAS STREAM

## **PERMIT UNIT REQUIREMENTS**

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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. H<sub>2</sub>S product stripper column includes vapor piping to H<sub>2</sub>S 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. H<sub>2</sub>S scrubber serving hydrogen rich waste gas shall be equipped with continuous operation H<sub>2</sub>S monitor on outlet of H<sub>2</sub>S 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 H<sub>2</sub>S scrubber. [District NSR Rule] Federally Enforceable Through Title V Permit
16. VOC emissions from fugitive components associated with H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S 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<sub>x</sub>/MMBtu, 0.0840 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, or 0.0143 lb-SO<sub>x</sub> /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<sub>x</sub>/MMBtu, 0.0365 lb-CO/MMBtu, 0.0015 lb-VOC/MMBtu, 0.0241 lb-PM<sub>10</sub>/MMBtu, or 0.0518 lb-SO<sub>x</sub>/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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 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 H<sub>2</sub>S 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [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 NOx 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**

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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<sub>x</sub>) 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 NO<sub>2</sub>/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<sub>x</sub>) emissions from each heater shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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

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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<sub>x</sub> (as NO<sub>2</sub>): 25 ppmv @3% O<sub>2</sub> or 0.031 lb/MMBtu, CO: 400 ppmv @ 3% O<sub>2</sub> 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-PM<sub>10</sub>/MMBtu, or 0.0006 lb-SO<sub>x</sub>/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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 30.70 tpy. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> or CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (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<sub>x</sub> 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, the measured NO<sub>2</sub> and CO concentrations corrected to 3% O<sub>2</sub>, and the O<sub>2</sub> 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub>) 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 NO<sub>2</sub>/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<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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<sub>x</sub> 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

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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 O<sub>2</sub> 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<sub>x</sub> - 94.95 tpy, CO - 154.66 tpy, VOC - 7.39 tpy, PM<sub>10</sub> - 18.10 tpy or SO<sub>x</sub> - 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<sub>x</sub>, 95 ppmv @3% O<sub>2</sub> or 0.10 lb/MMBtu, and CO, 400 ppmv @3% O<sub>2</sub>. [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<sub>x</sub>, 147 ppmv @3% O<sub>2</sub> or 0.18 lb/MMBtu, and CO, 400 ppmv @3% O<sub>2</sub>. [District Rule 4305 and 4351] Federally Enforceable Through Title V Permit
15. The retort heater stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (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<sub>x</sub> 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, the measured NO<sub>2</sub> and CO concentrations corrected to 3% O<sub>2</sub>, and the O<sub>2</sub> 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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 (NOx) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen, and lb/MMBtu rates shall be calculated as lb NO2/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and/or 4351, 8.1] Federally Enforceable Through Title V Permit
43. Nitrogen oxide (NOx) emissions from each heater shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2] Federally Enforceable Through Title V Permit
44. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

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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

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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-44-9-1

**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

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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

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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-44-11-1

**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

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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

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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

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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<sub>x</sub>, CO, and O<sub>2</sub> 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<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, 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<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (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<sub>x</sub> 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<sub>x</sub> 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 (O<sub>2</sub>) 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% CO<sub>2</sub>, 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 SO<sub>2</sub>. 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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 H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device. The span value for this instrument is 425 mg/dscm H<sub>2</sub>S. The performance evaluations for this H<sub>2</sub>S 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 H<sub>2</sub>S as measured by the H<sub>2</sub>S 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

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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 SO<sub>2</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Nitrogen oxide emission rate shall not exceed 1.87 lb/hr as NO<sub>2</sub>. [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

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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 SO<sub>2</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Nitrogen oxide emission rate shall not exceed 1.98 lb/hr as NO<sub>2</sub>. [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

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# 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

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-44-17-1

**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

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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-44-18-1

**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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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-44-35-3

**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

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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-44-36-1

**EXPIRATION DATE:** 08/31/2007

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

**EQUIPMENT DESCRIPTION:**

252,546 GALLON WASTEWATER STORAGE TANK #6001

## PERMIT UNIT REQUIREMENTS

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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

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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-44-41-1

**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

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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

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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

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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

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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**

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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<sub>x</sub> (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<sub>x</sub> 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<sub>x</sub> emissions expressed as lbs-SO<sub>x</sub>/ton shall be calculated using the exhaust concentration of SO<sub>x</sub> 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 PM<sub>10</sub> (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

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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<sub>x</sub>/day, or 20,550 lb NO<sub>x</sub>/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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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<sub>x</sub> emissions (referenced as NO<sub>2</sub>) 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 PM<sub>10</sub> 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.



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# ATTACHMENT C

## Detailed Facility List

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<b>Permit#</b>	<b>Equipment Description</b>
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, H <sub>2</sub> S PRODUCT STRIPPER (3-D-51), STRIPPER ACCUMULATOR, UTILITY FRACTIONATOR COLUMN (D-11) (SHARED WITH S-44-4), AND H <sub>2</sub> S 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, H <sub>2</sub> S CAUSTIC SCRUBBER, CONTINUOUS H <sub>2</sub> S MONITOR, & BACKUP H <sub>2</sub> S 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

<b>Permit#</b>	<b>Equipment Description</b>
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)

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# ATTACHMENT D

## Current District Rule SIP Comparison

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**Stringency Comparison of District Rule 4401 Non-SIP Version (12/14/2006) to Current SIP Version (1/15/1998)**

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
2.0 Applicability	2.0 This rule is applicable to all steam-enhanced crude oil production wells and any associated vapor collection and control systems.	2.0 This rule is applicable to all steam-enhanced crude oil production wells and any associated vapor collection and control systems.	No change in applicability, therefore, non-SIP version of rule is as stringent as SIP version.
4.0 Exemptions	4.1 Any steam-enhanced crude oil production well undergoing service or repair during the time the well is not producing.	4.1 Any steam-enhanced crude oil production well undergoing service or repair during the time the well is not producing.	No change in exemption, therefore, non-SIP version of rule is as stringent as SIP version.
	4.2 The requirements of this rule for cyclic wells shall not apply to the first 100 cyclic wells of a small producer.	4.2 Effective until December 31, 2008, the requirements of this rule for cyclic wells shall not apply to the first 100 cyclic wells of a small producer.	After January 1, 2009, this exemption is no more valid. Thus removing an exemption makes the current non-SIP version of the rule more stringent than the SIP version.
	<p>4.3 The requirements of this rule for cyclic wells shall not apply to up to 40 wells owned by a company and undergoing pilot testing provided;</p> <p>4.3.1 the production zone on that property has not been injected with steam during the preceding two (2) years,</p> <p>4.3.2 the well is located more than 1000 feet from an existing well vent vapor collection and control system operated by the company, and</p> <p>4.3.3 the operation is under District permit.</p>	<p>4.3 The requirements of this rule for cyclic wells shall not apply to up to 40 wells owned by a company and undergoing pilot testing provided;</p> <p>4.3.1 the production zone on that property has not been injected with steam during the preceding two (2) years,</p> <p>4.3.2 the well is located more than 1000 feet from an existing well vent vapor collection and control system operated by the company, and</p> <p>4.3.3 the operation is under District permit.</p>	No change in exemption, therefore, non-SIP version of rule is as stringent as SIP version.
	<p>4.4 The requirements of this rule shall not apply to up to 40 cyclic wells owned by a company and undergoing well stimulation, provided;</p> <p>4.4.1 the well is located more than 1000 feet from an existing well vent vapor collection and control system operated by the company, and</p> <p>4.4.2 the operation is under District permit.</p>	<p>4.4 The requirements of this rule shall not apply to up to 40 cyclic wells owned by a company and undergoing well stimulation, provided;</p> <p>4.4.1 the well is located more than 1000 feet from an existing well vent vapor collection and control system operated by the company, and</p> <p>4.4.2 the operation is under District permit.</p>	No change in exemption, therefore, non-SIP version of rule is as stringent as SIP version.

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
4.0 Exemptions (continued)	<p>4.5 The requirements of this rule shall not apply to up to 20 cyclic wells owned by a company in each stationary source as defined in Rule 2201 (New and Modified Stationary Source Review Rule), provided:</p> <p>4.5.1 the well is located more than 1000 feet from an existing well vent vapor control system operated by the company, and</p> <p>4.5.2 the operation is under District permit.</p>	<p>4.5 Effective until December 31, 2008, the requirements of this rule shall not apply to up to 20 cyclic wells owned by a company in each stationary source as defined in Rule 2201 (New and Modified Stationary Source Review Rule), provided the requirements of Section 4.5.1 and Section 4.5.2 are met. Effective on and after January 1, 2009, the requirements of this rule shall not apply to up to five (5) cyclic wells owned by a company that is not a small producer, in each stationary source as defined in Rule 2201 (New and Modified Stationary Source Review Rule), and up to 20 cyclic wells owned by a small producer, provided the requirements of Section 4.5.1 and Section 4.5.2 are met.</p> <p>4.5.1 the well is located more than 1000 feet from an existing well vent vapor control system operated by the company, and</p> <p>4.5.2 the operation is under District permit.</p>	<p>After January 1, 2009, the non SIP version exemption is more stringent because it reduced the maximum number of cyclic wells that could be previously exempt.</p> <p>Therefore, the non-SIP version of the rule is more stringent than the SIP version.</p>
	<p>4.6 The requirements of this rule shall not apply to the first ten (10) wells of a small producer that are responding to steam injected from an operator other than themselves and where no contractual agreement for injected steam exists, and provided the small producer meets the following conditions:</p> <p>4.6.1 A list of wells that are exempted by Section 4.6 shall be submitted to the APCO by July 15, 1998.</p> <p>4.6.2 Source testing of the well vent that is nearest to the steam injection well shall be conducted by January 15, 2001 in order to determine its VOC mass emission rate. Source testing shall be conducted in accordance with Section 6.4.4.</p>	<p>4.6 Effective until December 31, 2008, the requirements of this rule shall not apply to the first ten (10) wells of a small producer that are responding to steam injected from an operator other than themselves and where no contractual agreement for injected steam exists, and provided the small producer meets the following conditions:</p> <p>4.6.1 A list of wells that are exempted by Section 4.6 shall be submitted to the APCO by July 15, 1998.</p> <p>4.6.2 Source testing of the well vent that is nearest to the steam injection well shall be conducted by January 15, 2001 in order to determine its VOC mass emission rate. Source testing shall be conducted in accordance with Section 6.3.4.</p>	<p>After January 1, 2009, this exemption is no more valid. Thus removing an exemption makes the current non-SIP version of the rule more stringent than the SIP version.</p>
	<p>4.7 For existing facilities, the installation or modification of an emission control technique performed solely for the purpose of compliance with the requirements of this rule shall be exempt from Best Available Control Technology (BACT) and Offset requirements of Rule 2201 (New and Modified Stationary Source Review Rule) for all air pollutants provided the conditions in Sections 4.7.1 through 4.7.4 are met. The exemption in Section 4.7 does not apply to a project that converts a non-steam enhanced well to a steam enhanced crude oil production well, or the addition of new steam enhanced wells in existing facilities.</p> <p>4.7.1 there shall be no change in the physical or operational design of the existing facility, except for those changes to the design needed for the installation or modification of the emission control technique itself;</p> <p>4.7.2 there shall be no change in the permitted rating or permitted operating schedule of the permitted unit;</p> <p>4.7.3 there shall be no increase in permitted emissions or potential to emit from the stationary source that will cause or contribute to any violation of the National Ambient Air Quality Standard, Prevention of Significant Deterioration increment, or Air Quality Related Value in Class 1 areas; and</p> <p>4.7.4 the project shall not result in an increase in permitted emissions or potential to emit of more than 25 tons per year of NO<sub>x</sub>, or 25 tons per year of VOC, or 15 tons per year of SO<sub>x</sub>, or 15 tons per year of PM-10 or 50 tons per year of CO</p>	<p>--</p>	<p>This exemption has been removed in the non-SIP version of the rule, thus making the non-SIP version of the rule more stringent than the SIP version.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
4.0 Exemptions (continued)	--	4.7 The requirements of this rule shall not apply to components serving the produced fluid line.	<p>This exemption has been added in the non-SIP version of the rule and is needed as the changes to the title and purpose of the rule make these components subject to the rule which is not what is intended as such produced fluid side components are currently not subject to the rule.</p> <p>Therefore, this new exemption does not relax any requirement and is as stringent as the SIP version of the rule.</p>
	--	<p>4.8 Except for complying with the applicable requirements of Section 6.1, Section 6.6.6 and Section 7.2, the requirements of this rule shall not apply to components described in Section 4.8.1 through Section 4.8.4. An operator claiming an exemption pursuant to Section 4.8 shall provide proof of the applicable criteria to the satisfaction of the APCO.</p> <p>4.8.1 Pressure relief devices, pumps, and compressors that are enclosed and whose emissions are controlled with an operating VOC collection and control system as defined in Section 3.0.</p> <p>4.8.2 Components buried below ground.</p> <p>4.8.3 Components used exclusively in vacuum service.</p> <p>4.8.4 One-half inch nominal or less stainless steel tube fittings which have been demonstrated to the APCO to be leak-free based on initial inspection using the test method specified in Section 6.3.3.</p>	<p>This exemption has been added to the non-SIP version of the rule to allow certain components to be exempt from most of the requirements of the rule. These components do not involve with any VOC emissions; therefore, this new exemption does not relax any requirement of this rule or result in an increase in emissions.</p> <p>Therefore, the non-SIP version of the rule is as stringent as the SIP version.</p>
	--	4.9 Effective on and after January 1, 2009, the requirements of Section 5.8.1 through Section 5.8.5 of this rule shall not apply to components exclusively handling gas/vapor or liquid with a VOC content of ten percent by weight or less ( $\leq 10$ wt.%), as determined by the test methods in Section 6.3.5.	<p>This exemption has been added to the non-SIP version of the rule to help mitigate some of the cost impacts. As the potential VOC emissions from components handling gas/vapor or liquid with a VOC content of ten percent by weight or less are expected to be minimal, it is expected that these inspection requirements for such components are not cost effective. Such components that are found to be leaking are still subject to the tagging and repair requirements. These components are currently subject to the repair requirements of the rule and will continue to be subject to such requirements.</p> <p>Therefore, this new exemption does not relax any requirement of this rule or result in an increase in emissions, and, thus, the non-SIP version of the rule is as stringent as the SIP version.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
5.0 Requirements		<p>Note: Section 5.1 through Section 5.4 were effective until December 31, 2008, whereas Section 5.5 through Section 5.9 are effective on and after January 1, 2009.</p> <p>Therefore, Section 5.5 through Section 5.9 of non-SIP version of the rule will be compared to Section 5.1 through Section 5.4 of SIP version of rule.</p>	
	<p>5.1 No person shall operate a steam-enhanced crude oil production well, except cyclic wells meeting the requirements of Section 5.4, unless the uncontrolled VOC emissions from any well vent are reduced by at least 99 percent by weight, or</p> <p>5.2 If several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent.</p>	<p>5.5 An operator shall not operate a steam-enhanced crude oil production well unless the operator complies with the requirements of either Section 5.5.1 or Section 5.5.2.</p> <p>5.5.1 The steam-enhanced crude oil production well vent is closed and the front line production equipment downstream of the wells that carry produced fluids (crude oil or mixture of crude oil and water) is connected to a VOC collection and control system as defined in Section 3.0. The well vent may be temporarily opened during periods of attended service or repair of the well provided such activity is done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere.</p> <p>5.5.2 The steam-enhanced crude oil production well vent is open and the well vent is connected to a VOC collection and control system as defined in Section 3.0.</p>	<p>The requirements for operating a steam-enhanced crude oil production well and the control of VOC emissions from the well vent are rewritten for better clarity. Therefore, there is no change in requirements and non-SIP version of the rule is as stringent as SIP version.</p>



Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion																										
<b>5.0 Requirements (continued)</b>	<p>5.3 All components of a well vent vapor collection and control system shall be maintained in good repair. A total number of leaks is a violation of this rule if it exceeds the number of allowable leaks. Vapor collection and control systems serving 501 or more wells shall be determined to be in violation of the number of allowable leaks if more than one (1) leak is detected for each 20 wells tested with a minimum of 50 wells tested.</p> <table border="1" data-bbox="293 418 910 667"> <thead> <tr> <th data-bbox="293 418 753 521">Number of Steam Enhanced Crude Oil Production Wells Connected to a Vapor Collection and Control System</th> <th data-bbox="753 418 910 521">Number of Allowable Leaks</th> </tr> </thead> <tbody> <tr> <td data-bbox="293 521 753 553">Up to and including 25</td> <td data-bbox="753 521 910 553">3</td> </tr> <tr> <td data-bbox="293 553 753 578">26 to 50</td> <td data-bbox="753 553 910 578">6</td> </tr> <tr> <td data-bbox="293 578 753 602">51 to 100</td> <td data-bbox="753 578 910 602">8</td> </tr> <tr> <td data-bbox="293 602 753 626">101 to 250</td> <td data-bbox="753 602 910 626">10</td> </tr> <tr> <td data-bbox="293 626 753 667">251 to 500</td> <td data-bbox="753 626 910 667">15</td> </tr> </tbody> </table>	Number of Steam Enhanced Crude Oil Production Wells Connected to a Vapor Collection and Control System	Number of Allowable Leaks	Up to and including 25	3	26 to 50	6	51 to 100	8	101 to 250	10	251 to 500	15	<p>5.6 Determination of Compliance with the Leak Standards</p> <p>5.6.1 An operator shall be in violation of this rule if any District inspection demonstrates that one or more of the conditions in Section 5.6.2 exist at the facility or if any operator inspection conducted pursuant to Section 5.8 demonstrates that one or more of the conditions in Section 5.6.2 exist at the facility.</p> <p>5.6.2 Leak Standards</p> <p>The following conditions shall be used for determination of violation during an inspection pursuant to the provisions of Section 5.6.1:</p> <p>5.6.2.1 Existence of an open-ended line or a valve located at the end of the line that is not sealed with a blind flange, plug, cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended lines. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere.</p> <p>5.6.2.2 Existence of a component with a major liquid leak as defined in Section 3.0.</p> <p>5.6.2.3 Existence of a component with a gas leak greater than 50,000 ppmv.</p> <p>5.6.2.4 Existence of a component leak described in Section 5.6.2.4.1 through Section 5.6.2.4.3 in excess of the allowable number of leaks specified in Table 3.</p> <p>5.6.2.4.1 A minor liquid leak, or</p> <p>5.6.2.4.2 A minor gas leak, or</p> <p>5.6.2.4.3 A gas leak greater than 10,000 ppmv up to 50,000 ppmv.</p> <p>Table 3 Number of Allowable Leaks</p> <table border="1" data-bbox="949 1003 1540 1360"> <thead> <tr> <th data-bbox="949 1003 1310 1084">Number of Steam-Enhanced Crude Oil Production Wells Connected to a VOC Collection and Control System</th> <th data-bbox="1310 1003 1540 1084">Number of Allowable Leaks</th> </tr> </thead> <tbody> <tr> <td data-bbox="949 1084 1310 1109">1 to 25</td> <td data-bbox="1310 1084 1540 1109">3</td> </tr> <tr> <td data-bbox="949 1109 1310 1133">26 to 50</td> <td data-bbox="1310 1109 1540 1133">6</td> </tr> <tr> <td data-bbox="949 1133 1310 1157">51 to 100</td> <td data-bbox="1310 1133 1540 1157">8</td> </tr> <tr> <td data-bbox="949 1157 1310 1182">101 to 250</td> <td data-bbox="1310 1157 1540 1182">10</td> </tr> <tr> <td data-bbox="949 1182 1310 1206">251 to 500</td> <td data-bbox="1310 1182 1540 1206">15</td> </tr> <tr> <td data-bbox="949 1206 1310 1360">More than 500</td> <td data-bbox="1310 1206 1540 1360">One (1) for each 20 wells tested with a minimum of 50 wells tested.</td> </tr> </tbody> </table>	Number of Steam-Enhanced Crude Oil Production Wells Connected to a VOC Collection and Control System	Number of Allowable Leaks	1 to 25	3	26 to 50	6	51 to 100	8	101 to 250	10	251 to 500	15	More than 500	One (1) for each 20 wells tested with a minimum of 50 wells tested.	<p>This section of the non-SIP version of the rule has been amended to specify conditions that would cause an operator to be in violation of the rule.</p> <p>None of these amendments relax any existing requirements; therefore, the non-SIP version of the rule is as stringent as SIP version.</p>
Number of Steam Enhanced Crude Oil Production Wells Connected to a Vapor Collection and Control System	Number of Allowable Leaks																												
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Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
5.0 Requirements (continued)	--	<p>5.7 An operator shall comply with the following operating requirements:</p> <p>5.7.1 An operator shall not use any component with a leak as defined in Section 3.0, or that is found to be in violation of the provisions of Section 5.6.2. However, components that were found leaking may be used provided such leaking components have been identified with a tag for repair, are repaired, or awaiting re-inspection after being repaired within the applicable time frame specified in Section 5.9 of this rule.</p> <p>5.7.2 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 with minimal spillage of material and VOC emissions to the atmosphere.</p> <p>5.7.3 An operator shall comply with the requirements of Section 6.7 if there is any change in the description of major components or critical components.</p>	<p>This new section has more stringent requirements to prohibit an operator from using any component with a leak or that is counted towards determination of a violation pursuant to Section 5.6.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
5.0 Requirements (continued)		<p><b>5.8 Inspection and Re-inspection Requirements</b>  Unless otherwise specified, an operator shall perform all component inspections and gas leak measurements pursuant to the requirements of Section 6.3.3.</p> <p>5.8.1 Except for pipes and unsafe-to-monitor components, an operator shall inspect all other components pursuant to the requirements of Section 6.3.3 at least once every year.</p> <p>5.8.2 An operator shall visually inspect all pipes at least once every year. Any visual inspection of pipes that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected within 24 hours after detecting the leak. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 4 of this rule.</p> <p>5.8.3 In addition to the inspections required by Section 5.8.1, an operator shall inspect for leaks all accessible operating pumps, compressors, and PRDs in service as follows:</p> <p>5.8.3.1 An operator shall audio-visually (by hearing and by sight) inspect for leaks all accessible operating pumps, compressors, and PRDs in service at least once each calendar week.</p> <p>5.8.3.2 Any audio-visual inspection of an accessible operating pump, compressor, and PRD performed by an operator that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected not later than 24 hours after conducting the audio-visual inspection. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 4 of this rule.</p> <p>5.8.4 In addition to the inspections required by Section 5.8.1, Section 5.8.2 and Section 5.8.3, an operator shall perform the following inspections:</p> <p>5.8.4.1 An operator shall initially inspect a PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the discovery of the release. An operator shall re-inspect the PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the initial inspection.</p> <p>5.8.4.2 An operator shall inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service.</p> <p>5.8.4.3 Except for PRDs subject to the requirements of Section 5.8.4.1, an operator shall inspect a component that has been repaired or replaced not later than 15 calendar days after the component was repaired or replaced.</p> <p>5.8.5 An operator shall inspect all unsafe-to-monitor components during each turnaround.</p> <p>5.8.6 A District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator.</p>	<p>The more stringent inspection and re-inspection requirements are added to the non-SIP version of the rule.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
<p><b>5.0 Requirements (continued)</b></p>	<p>5.3.1 An operator, upon detection of a leak, shall affix a readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired. Failure to repair a leak within fifteen (15) calendar days shall constitute a violation of this rule. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions have and are being taken to correct the leak. Failure to repair a leak after a ten (10) calendar day extension constitutes a violation of this rule.</p> <p>5.3.2 For the purpose of Section 5.3, components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs prior to blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel.</p>	<p><b>5.9 Leak Repair Requirements</b></p> <p>5.9.1 An operator shall affix a readily visible weatherproof tag to a leaking component upon detection of the leak. An operator shall include the following information on the tag:</p> <p>5.9.1.1 The date and time of leak detection.</p> <p>5.9.1.2 The date and time of leak measurement.</p> <p>5.9.1.3 For a gaseous leak, the leak concentration in ppmv.</p> <p>5.9.1.4 For a liquid leak, whether it is a major liquid leak or a minor liquid leak.</p> <p>5.9.1.5 Whether the component is an essential component, an unsafe-to-monitor component, or a critical component.</p> <p>5.9.2 An operator shall keep the tag affixed to the component until an operator has met all of the following conditions:</p> <p>5.9.2.1 Repaired or replaced the leaking component, and</p> <p>5.9.2.2 Re-inspected the component using the test method in Section 6.3.3, and</p> <p>5.9.2.3 The component is found to be in compliance with the requirements of this rule.</p> <p>5.9.3 An operator shall minimize a component leak in order to stop or reduce leakage to the atmosphere immediately to the extent possible, but not later than one hour after detection of the leak.</p> <p>5.9.4 Except for leaking critical components or leaking essential components subject to the requirements of Section 5.9.7, if an operator has minimized a leak but the leak still exceeds the applicable leak limits as defined in Section 3.0, an operator shall comply with at least one of the requirements of Section 5.9.4.1, Section 5.9.4.2, or Section 5.9.4.3 as soon as practicable but not later than time period specified in Table 4.</p> <p>5.9.4.1 Repair or replace the leaking component; or</p> <p>5.9.4.2 Vent the leaking component to a VOC collection and control system as defined in Section 3.0, or</p> <p>5.9.4.3 Remove the leaking component from operation.</p> <p>5.9.5 The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period specified in Table 4.</p> <p>5.9.6 The time of the initial leak detection shall be the start of the repair period specified in Table 4</p> <p>5.9.7 If the leaking component is an essential component or a critical component that cannot be immediately shut down for repairs, and if the leak has been minimized but the leak still exceeds the applicable leak standard of this rule, the operator shall repair or replace the essential component or critical component 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.</p>	<p>The SIP version of the rule is less stringent, because it gives an operator 15 calendar days to repair a leak. Whereas the non-SIP version of the rule requires an immediate action to stop or minimize the leak within one hour of detection of leak. In addition, the leak repair requirements regarding additional time for essential and critical components are more stringent than SIP version of the rule.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version.</p>
	<p>5.4 No person shall operate a cyclic well located on properties with less than ten (10) cyclic wells, owned by a company, unless the uncontrolled VOC emissions from any well vent or system of well vents connected to a single vapor collection and control device are reduced by at least 50 percent. Properties shall include contiguous and adjacent oil production properties owned by or under control of the company.</p>	<p>--</p>	<p>This section was superseded by a more stringent section 5.5 of the non-SIP version of the rule. Therefore, the non-SIP version of rule is more stringent than the SIP version.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
<p><b>6.0 Administrative Requirements</b></p>	<p><b>6.1 Recordkeeping and Submissions</b>  An operator shall maintain the records required by Sections 6.1, and 6.2 for a period of two (2) years. These records shall be made available to the APCO upon request.</p> <p>6.1.1 The operator of any steam-enhanced crude oil production well shall maintain records of the date and well identification where steam injection or well stimulation occurs.</p> <p>6.1.2 Effective January 15, 1998, a small producer shall maintain monthly records of county-specific crude oil production. For the purpose this rule, the monthly crude oil production records required by the California Division of Oil, Gas, and Geothermal Resources may be used to satisfy Section 6.1.2.</p> <p>6.1.3 Effective January 15, 1998, the operator of any steam enhanced crude oil production well shall keep source test records which show that the control efficiency requirements of Sections 5.1, 5.2 or 5.4 are satisfied.</p> <p>6.1.4 The results of source tests conducted pursuant to Section 4.6.2 shall be submitted to the APCO within 60 days after the completion of the source test.</p>	<p><b>6.1 Recordkeeping and Submissions</b></p> <p>An operator shall maintain the records required by Sections 6.1 and Section 6.2 for a period of five (5) years. These records shall be made available to the APCO, California Air Resources Board (ARB), and EPA upon request.</p> <p>6.1.1 The operator of any steam-enhanced crude oil production well shall maintain records of the date and well identification where steam injection or well stimulation occurs.</p> <p>6.1.2 Effective January 15, 1998, a small producer shall maintain monthly records of county-specific crude oil production. For the purpose of this rule, the monthly crude oil production records required by the California Division of Oil, Gas, and Geothermal Resources may be used to satisfy Section 6.1.2.</p> <p>6.1.3 An operator of any steam-enhanced crude oil production well shall keep source test records which demonstrate compliance with the control efficiency requirements of the VOC collection and control system as defined in Section 3.0.</p> <p>6.1.4 Effective until December 31, 2008, the results of source tests conducted pursuant to Section 4.6.2 shall be submitted to the APCO within 60 days after the completion of the source test.</p> <p>6.1.5 Effective on and after January 1, 2009, the inspection log maintained pursuant to Section 6.4.</p> <p>6.1.6 Effective on and after January 1, 2009, 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, instrument 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.</p> <p>6.1.7 Effective on and after January 1, 2009, an operator shall maintain copies at the facility of the training records of the training program operated pursuant to Section 6.5.</p> <p>6.1.8 Effective on and after January 1, 2009, an operator shall keep a copy of the APCO-approved Operator Management Plan at the facility.</p> <p>6.1.9 An operator shall submit to the APCO not later than June 14, 2007 a list of all gauge tanks, as defined in Section 3.17. The list shall contain the size, identification number, the location of each gauge tank and specify whether the gauge tank is upstream of all front line production equipment.</p> <p>6.1.10 The results of gauge tank TVP testing conducted pursuant to Section 6.2.5 shall be submitted to the APCO within 60 days after the completion of the testing.</p> <p>6.1.11 Effective on and after January 1, 2007, an operator that discovers that a PRD has released shall record the date that the release was discovered, and the identity and location of the PRD that released. An operator shall submit such information recorded during the calendar year to the APCO no later than 60 days after the end of the calendar year.</p>	<p>This section of non-SIP version was amended to include more stringent record keeping and submission requirements.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
<p>6.0 Administrative Requirements (continued)</p>	<p><b>6.2 Compliance Source Testing</b></p> <p>6.2.1 Compliance testing shall be performed annually by source testers certified by the California Air Resources Board (CARB) on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed during June, July, August, or September of each year if the system's control efficiency is dependent upon ambient air temperature.</p> <p>6.2.1.1 The APCO may waive the annual testing requirement of Section 6.2.1 if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine or in a smokeless flare.</p> <p>6.2.1.2 The APCO may waive the annual testing requirement of Section 6.2.1 for a vapor control system which does not have a VOC destruction device.</p>	<p><b>6.2 Compliance Source Testing</b></p> <p>6.2.1 An operator shall source test annually all vapor collection and control systems used to control emissions from steam-enhanced crude oil production well vents to determine the control efficiency of the device(s) used for destruction or removal of VOC. Compliance testing shall be performed annually by source testers certified by ARB. Testing shall be performed during June, July, August, or September of each year if the system's control efficiency is dependent upon ambient air temperature.</p> <p>6.2.2 If approved by EPA, ARB, and the APCO, an operator need not comply with the annual testing requirement of Section 6.2.1 if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine or in a smokeless flare.</p> <p>6.2.3 If approved by EPA, ARB, and the APCO, an operator need not comply with the annual testing requirement of Section 6.2.1 for a vapor control system which does not have a VOC destruction device.</p> <p>6.2.4 An operator seeking approval pursuant to Section 6.2.2 or Section 6.2.3 shall submit a written request and supporting information to the APCO. The District shall evaluate the request and if approved by the APCO, the District shall provide EPA and ARB with a copy of the evaluation and shall request EPA and ARB approval. The District evaluation and the APCO request shall be deemed approved unless EPA or ARB objects to such approval in writing within 45 days of the receipt of the APCO request.</p> <p>6.2.5 An operator shall comply with the following requirements for each gauge tank, as defined in Section 3.17:</p> <p>6.2.5.1 Conduct an initial TVP testing of the produced fluid in each gauge tank not later than June 14, 2007. Thereafter, an operator shall conduct periodic TVP testing of each gauge tank at least once every 24 months during summer (July – September), and whenever there is a change in the source or type of produced fluid in the gauge tank.</p> <p>6.2.5.2 The TVP testing shall be conducted at the actual storage temperature of the produced fluid in the gauge tank using the applicable TVP test method specified in Section 6.4 of Rule 4623 (Storage of Organic Liquids). The operator shall submit the TVP testing results to the APCO as specified in Section 6.1.10.</p>	<p>This section was amended to clarify the existing provisions of the section and to require an operator that wants to forego some of the annual testing requirements to receive approval from EPA, ARB and the APCO. Review of operator requests by the oversight agencies should prevent possible rule circumvention which was an expressed EPA concern. Provisions were also added to specify the testing requirements for the true vapor pressure of gauge tanks, as defined in the rule.</p> <p>These requirements are at least as stringent as in the SIP version of the rule. Therefore, the non-SIP version of rule is at least as stringent than the SIP version.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
<p>6.0 Administrative Requirements (continued)</p>	<p><b>6.4 Test Methods</b></p> <p>6.4.1 The control efficiency of the vapor collection and control system used to control VOC emissions from steam enhanced crude oil production wells shall be determined by:</p> <p>6.4.1.1 mass balance based on most stringent of a source test, USEPA approved emission factors, or Air Pollution (AP)-42 emission factors for components and number of components, and</p> <p>6.4.1.2 the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable.</p> <p>6.4.2 VOC content shall be analyzed by using the latest revision of ASTM Method E168, E169, or E260 as applicable. Analysis of halogenated exempt compounds shall be analyzed by CARB Method 432.</p> <p>6.4.3 Leak detection shall be performed with a portable hydrocarbon detection instrument in accordance with EPA Method 21. Where safety is a concern, such as measuring leaks from compressor seals or pump seals when the shaft is rotating, a person shall measure leaks by placing the instrument probe inlet at a distance of one (1) centimeter or less from the surface of the component interface.</p> <p>6.4.4 For the purpose of Section 4.6.2, the VOC mass emission rate shall be determined according to the procedures described in the document USEPA-909/9-81-003, September 1981, entitled "Assessment of VOC Emissions from Well Vents Associated with Thermally Enhanced Oil Recovery". An equivalent test method may be used provided it has been approved by the USEPA, CARB, and the APCO.</p>	<p><b>6.3 Test Methods</b></p> <p>Test methods that are equivalent to those test methods specified in Section 6.3.1 through Section 6.3.5 may be used provided that such equivalent test methods have been previously approved, in writing, by the EPA, ARB, and the APCO.</p> <p>6.3.1 The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported.</p> <p>6.3.2 VOC content shall be analyzed by using the latest revision of ASTM Method E168, E169, or E260 as applicable. Analysis of halogenated exempt compounds shall be performed by using ARB Method 432.</p> <p>6.3.3 Leak inspection, other than audio-visual, and measurements of gaseous leak concentrations shall be conducted according to 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 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. Where safety is a concern, such as measuring leaks from compressor seals or pump seals when the shaft is rotating, a person shall measure leaks by placing the instrument probe inlet at a distance of one (1) centimeter or less from the surface of the component interface.</p> <p>6.3.4 Effective until December 31, 2008, for the purpose of Section 4.6.2, the VOC mass emission rate shall be determined according to the procedures described in the document USEPA-909/9-81-003, September 1981, entitled "Assessment of VOC Emissions from Well Vents Associated with Thermally Enhanced Oil Recovery".</p> <p>6.3.5 The VOC content by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 or the latest revision of ASTM Method E168, E169 or E260 for liquids.</p>	<p>This section was amended to specify that the control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by US EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case US EPA Method 25a may be used. In addition, this section was amended to specify that test methods that are equivalent to those test methods specified in Section 6.3.1 through Section 6.3.5 may be used provided such equivalent test methods have been previously approved, in writing, by EPA, ARB, and the APCO.</p> <p>These requirements are at least as stringent as in the SIP version of the rule. Therefore, the non-SIP version of rule is at least as stringent than the SIP version.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
6.0 Administrative Requirements (continued)	--	<p><b>6.4 Inspection Log</b></p> <p>Effective on and after January 1, 2009, an operator shall maintain an inspection log in which an operator records, at a minimum, all of the following information for each inspection performed:</p> <p>6.4.1 The total number of components inspected, and the total number and percentage of leaking components found by component type.</p> <p>6.4.2 The location, type, and name or description of each leaking component and description of any unit where the leaking component is found.</p> <p>6.4.3 The date of leak detection and the method of leak detection.</p> <p>6.4.4 For gaseous leaks, the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak.</p> <p>6.4.5 The date of repair, replacement, or removal from operation of leaking components.</p> <p>6.4.6 The identify and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier.</p> <p>6.4.7 The methods used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier.</p> <p>6.4.8 The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced.</p> <p>6.4.9 The inspector's name, business mailing address, and business telephone number.</p> <p>The date and signature of the facility operator responsible for the inspection and repair program certifying the accuracy of the information recorded in the log.</p>	<p>This new section has more stringent requirements regarding maintaining inspection logs which were not required by the SIP version of the rule.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version of the rule.</p>
	--	<p><b>6.5 Employee Training Program</b></p> <p>Effective on and after January 1, 2009, an operator shall establish and implement an employee training program for inspecting and repairing components and recordkeeping procedures, as necessary.</p>	<p>This new section has more stringent requirement regarding employee training program which was not required by the SIP version of the rule.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version of the rule.</p>



Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
6.0 Administrative Requirements (continued)	--	<p><b>6.6 Operator Management Plan</b></p> <p>By June 30, 2008, an operator whose existing wells are subject to this rule or whose existing wells are exempt pursuant to Section 4.0 of this rule on or before December 14, 2006 shall prepare and submit an Operator Management Plan for approval by the APCO. An operator may use diagrams, charts, spreadsheets, or other methods approved by the APCO to describe the information required by Section 6.6.4 through Section 6.6.7 below. The Operator Management Plan shall include, at a minimum, all of the following information:</p> <p>6.6.1 A description of all wells and all associated VOC collection and control systems subject to this rule, and all wells and all associated VOC collection and control systems that are exempt pursuant to Section 4.0 of this rule.</p> <p>6.6.2 Identification and description of any known hazard that might affect the safety of an inspector.</p> <p>6.6.3 Except for pipes, the number of components that are subject to this rule by component type.</p> <p>6.6.4 Except for pipes, the number and types of major components, inaccessible components, unsafe-to-monitor components, critical components, and essential components that are subject to this rule and the reason(s) for such designation.</p> <p>6.6.5 Except for pipes, the location of components subject to the rule (components may be grouped together functionally by process unit or facility description).</p> <p>6.6.6 Except for pipes, components exempt pursuant to Section 4.8 (except for components buried below ground) may be described in the Operator Management Plan by grouping them functionally by process unit or facility description. The results of any laboratory testing or other pertinent information to demonstrate compliance with the applicable exemption criteria for components for which an exemption is being claimed pursuant to Sections 4.8 shall be submitted with the Operator Management Plan.</p> <p>6.6.7 A detailed schedule of an operator's inspections of components to be conducted as required by this rule and whether the operator inspections of components required by this rule will be performed by a qualified contractor or by an in-house team.</p> <p>6.6.8 A description of the training standards for personnel that inspect and repair components.</p> <p>6.6.9 A description of the leak detection training for conducting the test method specified in Section 6.3.3 for new operators, and for experienced operators, as necessary.</p> <p>6.7 By January 30 of each year after 2008, an operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to an existing Operator Management Plan.</p> <p>6.8 The APCO shall provide written notice to the operator of the approval or incompleteness of a new or revised Operator Management Plan within 60 days of receiving such Operator Management Plan. If the APCO fails to respond in writing within 60 days after the date of receiving the Operator Management Plan, it shall be deemed approved. No provision of the Operator Management Plan, approved or not, shall conflict with or take precedence over any provision of this rule.</p>	<p>This new section has more stringent requirements regarding preparing and submitting an Operator Management Plan which were not required by the SIP version of the rule.</p> <p>Therefore, the non-SIP version of rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4401 (1/15/1998)	Non-SIP Version of Rule 4401 (12/14/2006)	Conclusion
<p><b>7.0 Compliance Schedule</b></p>	<p><b>7.0 Compliance Schedule</b></p> <p>7.1 The operator of any new steam-enhanced crude oil production well, or any non-steam-enhanced crude oil production well converted to a steam-enhanced crude oil production well, which commences steam-enhancement operations on or after April 11, 1991, shall comply with the requirements of this rule and the applicable permit requirements of Rule 2201 (New and Modified Stationary Source Review Rule) before steam injection and no later than the first detectable flow at the casing vent.</p> <p>7.2 Any crude oil production well that becomes subject to this rule through loss of exemption shall be in compliance within 24 months after the date of losing an exemption.</p>	<p><b>7.0 Compliance Schedule</b></p> <p>7.1 The operator of any new steam-enhanced crude oil production well, or any non-steam-enhanced crude oil production well converted to a steam-enhanced crude oil production well, which commences steam-enhancement operations on or after April 11, 1991, shall comply with the requirements of this rule and the applicable permit requirements of Rule 2201 (New and Modified Stationary Source Review Rule) before steam injection and no later than the first detectable flow at the casing vent.</p> <p>7.2 Steam-enhanced crude oil production wells and components that are exempt pursuant to Section 4.3, 4.4, 4.5, 4.8 or 4.9 that become subject to this rule through loss of exemption status shall not be operated until such time that they are in full compliance with the requirements of this rule.</p> <p>7.3 Effective on and after January 1, 2009, an operator shall be in full compliance with the requirements of this rule, unless otherwise specified in the provisions of this rule</p>	<p>This section was amended to prohibit an operator from using any steam-enhanced crude oil production well and any associated VOC collection and control system and component(s) that become subject to the requirements of this rule through the loss of exemption status due to operator action until the operator demonstrates that the previously exempt unit(s) are in compliance with this rule. The new Section 7.3 requires an operator to be in full compliance with the requirements of this rule, unless otherwise specified in the certain provisions of this rule.</p> <p>These requirements are more stringent than the SIP version of the rule. Therefore, the non-SIP version of rule is more stringent than the SIP version.</p>

**Overall Conclusion:**

District Rule 4401 was amended (12/14/2006) to implement the emission control measures to satisfy the attainment goals of the District's ozone and PM plans. The proposed amendments seek to obtain as much reduction of VOC emissions from crude oil production sources as expeditiously as practicable, technologically feasible, and economically reasonable. These amendments can potentially achieve emissions reduction by eliminating certain exemption provisions in the rule to make more sources subject to the rule and by decreasing the current leak threshold as well as reducing the allowable leak repair period.

As analyzed above, 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.

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# ATTACHMENT E

## District Responses To Facility Requested Changes

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

<b>Permit/ATC#</b>	<b>Condition #</b>	<b>Requested Change</b>	<b>District Action</b>
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**

<b>Permit/ ATC#</b>	<b>Condition #</b>	<b>Requested Change</b>	<b>District Action</b>
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>

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# ATTACHMENT F

## District Responses To Facility Comments

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## DISTRICT'S RESPONSES TO FACILITY COMMENTS

In response to the comments received on November 21, 2011 letter from Mr. Jeffery Beecher of Tricor Refining, LLC, District has come to following conclusions. Following are the responses to comments made by facility after reviewing the draft renewed Title V permits.

- 1) **Facility Comment** - Tricor requests that condition 43 of proposed permit S-44-0-2 be removed as it does not appear to apply to Tricor. It appears it was intended to apply to oil production facilities.

**District Response** – This condition has been removed.

- 2) **Facility Comment** - Tricor requests that conditions 17, 18, 19, and 23 of proposed permit S-44-145-8 be removed and replaced with new test method procedures established in PTO S-44-145-10.

**District Response** – The requested changes has been made.

- 3) **Facility Comment** - Tricor submitted a letter on September 7, 2011 regarding annual operation time limits for the air compressors listed in proposed permits S-44-165-2 and S-44-166-2. This letter asked to reopen project number S-1095724 so that we may take advantage of the opportunity to run the newer, cleaner engines longer than those we replaced while not emitting any more air pollutants. Tricor requests that these new permit limits be incorporated into the Title V renewal.

**District Response** – This issue has been addressed in email communication between Mr. David Tori of the District and Mr. Jeff Beecher dated May 11, 2011. No further action is needed.

- 4) **Facility Comment** - The last item concerns proposed permit S-44-2-22. Tricor submitted an ATC application to delete oil firing for Rule 4320 particulate matter compliance and we have since been issued ATC S-44-2-23. Proposed permit S-44-2-22 and ATC S-44-2-23 make no mention of refinery produced gas. Tricor must retain the ability to incinerate the refinery produced gas as previously allowed by permit S-44-2-21.

**District Response** – The requested change can be only granted through ATC application and is not within scope of TV Renewal permitting action.

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# ATTACHMENT G

## District Responses To EPA Comments

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## **EPA Comments for Proposed Title V Permit Renewal Evaluation for Tricor Refining LLC, Facility ID S-44, Project # S-1070111**

EPA appreciates the opportunity to comment on the District's proposed Title V permit renewal for Tricor Refining LLC. EPA has the following comments on the permit.

1. The CAM analysis in the engineering evaluation must address CAM applicability for the following units. If CAM applies, adequate monitoring must be included in the permits for these units.
  - a. S-44-194-4 which is subject to a VOC limit and requirements to vent to a control system (condition 2);
  - b. S-44-150-3 which is subject to a VOC limit and requirements to vent to a control system (condition 2); and

District Response: Both of these permit units are not a continuous operation but batch operations. Both of these permit units has daily emissions limit of 1.9 lb/day that was calculated as uncontrolled emissions during original permitting action(District Project #971251). The Cameron Environmental Model TSU-4000R Radial Flow Vapor Phase Carbon Adsorber was added later on as an odor control measure. The uncontrolled potential to emit from each of these emission units is less that major source threshold of 20,000 lb/yr as shown below.

$$\text{Uncontrolled PE} = 1.9 \text{ lb/day} \times 365 \text{ days/yr} = 694 \text{ lb/yr}$$

Therefore both of these permit units are not subject to CAM requirements.

- c. S-44-16-4. Condition 3 requires the tanks to vent to a lean oil absorber and carbon canister (i.e., the control device), condition 4 requires VOC concentration to be monitored, and condition 5 requires these systems to operate at least at 99.99% by weight (i.e., the emission limit).

District Response: The District has reviewed the original permitting action files for this permit unit and determined that lean oil absorber was a process unit and not control unit as it appears to be on the equipment description of the permit unit. The carbon canister is only control device for this permit unit and the original permitting action also establishes emission limit of 0.14 lb/day from this operation (District Project # 990073). The uncontrolled potential to emit from each of this emission unit is less that major source threshold of 20,000 lb/yr as shown below.

$$\text{Uncontrolled PE} = [0.14 \text{ lb/day}/(1-0.99)] \times 365 \text{ days/yr} = 5,110 \text{ lb/yr}$$

Therefore this permit unit is not subject to CAM.

2. Unit S-44-5-12 is described as standby equipment and used when the cogeneration facility (Oildale Energy) is not in operation. The engineering evaluation states that specifying daily CAM monitoring would have an adverse effect since this unit is not operated on a daily basis. However, the engineering evaluation does not show how CAM does or does not apply. Please clarify CAM applicability to the unit. If CAM applies, adequate monitoring must be included in the permits for this unit. Also, although condition 3 requires the boiler not to be fired during operation of the cogeneration facility, the permit does not limit hours of operation of the unit or contain conditions regarding how often the Oildale Energy facility operates. Please revise the permit to provide operating limitations for the boiler.

District Response:

The cogen provides more than 400,000 MMBtu of thermal energy to Tricor's facility each year, as steam and in heat transfer fluid. The thermal energy from the cogen replaces the useful energy which Tricor would otherwise obtain by operating its boilers and process heaters. The two facilities have been closely linked throughout the cogen's existence. In fact, they started out as one integrated facility that was classified as two separate stationary sources by the District's predecessor, the Kern County Air Pollution Control District. At that time, in 1983-1984, Tricor's predecessor, Witco Corporation, held all of the air permits for both stationary sources. It provided emissions offsets for the cogen's potential to emit NO<sub>x</sub>, SO<sub>x</sub>, particulate matter, hydrocarbons, and carbon monoxide, in part by converting several process heaters and a pair of boilers at facility S-44 to standby service; an arrangement that continues to be mandated, with some modifications, to the present day. In return, the cogen's waste heat could only be used at facility S-44. This limitation also persists to the present day.

There is no need to establish operating limitation for the boiler since condition 3 already says that boiler cannot be fired during operation of cogeneration facility. In hypothetical scenario even if boiler operates 4500 hours per year, the uncontrolled NO<sub>x</sub> potential to emit will be less than major source threshold of 20,000 lb/yr as shown below. Since FGR has only 30% NO<sub>x</sub> control efficiency.

$$\text{Uncontrolled PE} = 0.031 \text{ lb/MMBtu} \times 99.9 \text{ MMBtu/hr} \times 4500 \text{ hrs/yr} / (1-0.3) = 19,909 \text{ lb/yr}$$

Operation logs provided by facility shows that during current year 2011 boiler only operated 216 hours up until December while turbine was going through maintenance. As per facility records when gas turbine is going through overall maintenance which occurs about 25,000 of continuous operation. The boiler will operate maximum of 1,000 hours when turbine is going through overall maintenance.

Therefore this permit unit is not subject to CAM.