



OCT 25 2010

Maynard Adams  
Rio Bravo Poso  
16608 Porterville Highway  
Bakersfield CA 93308


**Re: Notice of Final Action - Title V Permit Renewal  
District Facility # S-883  
Project # S-1091460**

Dear Mr. Adams:

The District has issued the Final Title V Permit for Rio Bravo Poso. The preliminary decision for this project was made on August 13, 2010. No comments were received subsequent to the District preliminary decision. Enclosed are 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: Juscelino Siongco, 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



OCT 25 2010

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-883  
Project # S-1091460**

Dear Mr. Rios:

The District has issued the Final Title V Permit Renewal for Rio Bravo Poso. The preliminary decision for this project was made on August 13, 2010. No comments were received subsequent to the District preliminary decision. Enclosed are 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: Juscélino Siongco, 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



OCT 25 2010

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-883  
Project # S-1091460**

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Rio Bravo Poso. The preliminary decision for this project was made on August 13, 2010. No comments were received subsequent to the District preliminary decision. Enclosed are 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: Juscélino Siongco, 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

**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 Rio Bravo Poso for its electrical generating facility, 16608 Porterville Highway, Bakersfield, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1091460, 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.



# Permit to Operate

**FACILITY:** S-883

**EXPIRATION DATE:** 01/31/2015

**LEGAL OWNER OR OPERATOR:** RIO BRAVO POSO  
**MAILING ADDRESS:** 19100 VON KARMAN, STE 570  
IRVINE, CA 92612

**FACILITY LOCATION:** 16608 PORTERVILLE HWY  
BAKERSFIELD, CA 93308

**FACILITY DESCRIPTION:** ELECTRIC SERVICES

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-883-0-3

EXPIRATION DATE: 01/31/2015

## FACILITY-WIDE REQUIREMENTS

---

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; Kern County Rule 111; PSD ATC 85-06] 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; Kern County Rule 111; PSD ATC 85-06] 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 and PSD ATC SJ 85-06] 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 and CFR 60.52Da] 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: RIO BRAVO POSO  
Location: 16608 PORTERVILLE HWY, BAKERSFIELD, CA 93308  
S-883-0-3 Sep 29 2010 8 43AM - SIOINGCOJ

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, the ARB, or EPA 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 and PSD SJ 85-06] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District, the ARB, or EPA 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 and PSD SJ 85-06] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District, the ARB, or EPA to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3 and PSD SJ 85-06] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District, the ARB, or EPA 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 and PSD SJ 85-06] 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 Kern County Rule 40.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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



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. Equipment covered by this permit shall at all times be maintained in good working order and be operated as efficiently as possible so to minimize air pollutant emissions. [PSD SJ 85-06] Federally Enforceable Through Title V Permit
40. In the event of changes in control or ownership, this Operating Permit shall be binding on new owners and operators. The applicant shall notify successor of the existence of this Operating Permit and its conditions in writing and forward a copy to the District, California Air Resources Board, and EPA. [PSD SJ 85-06] Federally Enforceable Through Title V Permit
41. The applicant shall construct and operate the facility in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and District air quality regulations. [PSD SJ 85-06] Federally Enforceable Through Title V Permit
42. Should additional guidance related to the June 3, 1986 PSD remand be developed, Rio Bravo shall provide to EPA any such analysis, data or demonstration of compliance with other requirements within the time required by such guidance. [PSD SJ 85-06] Federally Enforceable Through Title V Permit
43. All correspondence as required by this Operating Permit shall be forwarded to: the District; Director, Air & Toxics Div. (Attn: A-3-3), EPA Region 9, 75 Hawthorne St. San Francisco, CA 94105. [PSD SJ 85-06] Federally Enforceable Through Title V Permit
44. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
45. All permits issued to Rio Bravo Poso (S-883) and Rio Bravo Jasmin (S- 1751) are included in the same heavy oil central stationary source. [District NSR Rule] Federally Enforceable Through Title V Permit
46. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit
47. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin April 28 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] 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-883-1-10

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

FUEL RECEIVING AND STORAGE OPERATION INCLUDING ENCLOSED TRUCK RECEIVING STATION WITH FABRIC COLLECTOR AND WATER/SURFACTANT SPRAY SYSTEM, TWO FUEL SILOS WITH FABRIC COLLECTORS, AND ENCLOSED UNDERHOPPER CONVEYOR - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. Two 30 ft. diam. by 80 ft. tall fuel storage silos shall each vent to a fabric collector. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Coal/petroleum coke truck receiving shall be fully enclosed during entire fuel unloading operation. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Visible emissions shall not exceed 1/4 Ringelmann or equivalent 5% opacity at any time from truck receiving hopper enclosure, fuel conveyors, conveyor transfer points, fuel storage silos or any fabric collector. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Coal/coke shall not be received, conveyed, or transferred into storage silos unless ventilation systems and fabric collectors are operating. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All collected fines shall be returned to the fuel system. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Coal/coke receiving shall not operate more than 300 hours per month. [District NSR Rule] Federally Enforceable Through Title V Permit
7. PM10 emissions rate from both fuel silo fabric collectors shall not exceed 0.032 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. All roadways, driveways, and vehicular work areas shall be surfaced with slow cure asphalt paving. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter breakthrough and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Visible emissions from storage silo shall be checked and record results quarterly. If visible emissions are observed, corrective action is required prior to further loading. Corrective action means that visible emissions are eliminated before next loading event. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Records of fabric collector filter maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual performing inspection. [District Rule 2520, 9.4.1] 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.

13. The records of hours of operation of fuel receiving system shall be maintained on monthly basis. [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-883-2-8

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

LIMESTONE RECEIVING AND STORAGE OPERATION INCLUDING ONE PNEUMATICALLY FILLED STORAGE SILO WITH FABRIC COLLECTOR - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. Limestone shall not be transferred into silo unless fabric collectors are operating. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Collected fines shall be returned to limestone system. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Silo fabric collector particulate matter (PM-10) emission rate shall not exceed 0.02 lb/hr and 0.0033 gr/scf. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the limestone unloading operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter breakthrough and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Visible emissions from storage silo shall be checked and record results annually. If visible emissions are observed, corrective action is required prior to further loading. Corrective action means that visible emissions are eliminated before next loading event. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Records of fabric collector filter maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual performing inspection. [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-883-3-17

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

36.0 MW SOLID FUEL FIRED CIRCULATING BED COMBUSTOR COGENERATION UNIT INCLUDING 389 MMBTU/HR COMBUSTOR WITH LOW-TEMPERATURE STAGED COMBUSTION, AMMONIA INJECTION, AND PULVERIZED LIMESTONE INJECTION - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall comply in full with all applicable Rule 4001 requirements (New Source Performance Standards, 40 CFR, Part 60, Subpart Da). [District Rule 4001] Federally Enforceable Through Title V Permit
2. Fuel collecting conveyor, two fuel crushers, two bucket elevators, two boiler feed conveyors, fuel feed bin, fuel feeder, and limestone conveyor/feeder shall be totally enclosed and ventilated to fabric collector. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Operation shall be equipped with pneumatic limestone feed system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Operation shall be equipped with primary and secondary combustion air blowers and air preheater with ash hopper. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Operation shall be equipped with fabric collector with ash hopper serving fuel/limestone handling equipment and combustor. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The main exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples using approved EPA test methods. [District Rule 1081, 3.0; and PSD SJ 85-07] Federally Enforceable Through Title V Permit
7. Combustor shall be fired only on coal or petroleum coke. Propane or natural gas may be used as start-up fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
8. No more than 835,520 lb (on a dry basis) of solid fuel per day of no more than 4.0% by weight sulfur shall be introduced into the combustor. [District NSR Rule & PSD SJ 85-07] Federally Enforceable Through Title V Permit
9. Limestone shall be capable of being directly injected into the combustor at a minimum of 0.042 lb limestone per lb of fuel introduced into the combustor. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Peak temperature of combustor shall not exceed 1800 degrees F. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Unit shall be operated as staged-combustion device by introducing sub-stoichiometric amount of combustion air in primary combustion zone. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Ash shall be removed from combustion system only by means authorized by ash handling and loadout operation (Permit No. S-883-4). [District NSR Rule] Federally Enforceable Through Title V Permit
13. Fuel feed and combustion air supply shall be automatically shutdown whenever fabric collector is shutdown. [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.

14. Visible emissions shall not exceed 1/4 Ringelmann or equivalent 5% opacity at any time from fuel conveyors, crusher, feed bin, feeder, and fabric collector. [District NSR Rule and 40 CFR 64] Federally Enforceable Through Title V Permit
15. All combustor exhaust gas shall pass through fabric collector prior to emission to atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Ammonia injection system shall be capable of delivering at least 2.0 moles of NH<sub>3</sub> for each mole of NO<sub>x</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Soot-blowing shall not result in visible emissions of greater than Ringelmann 1 or equivalent 20% opacity, excluding uncombined water vapor, except for aggregate periods of less than 3 minutes in any one hour period. [District Rule 4101] Federally Enforceable Through Title V Permit
18. At least 5% of annual energy output shall be in the form of useful thermal energy which shall be used for thermally enhanced oil recovery in the Heavy Oil Central Stationary Source. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Permittee shall maintain accurate daily records of energy output and useful thermal energy output and shall annually demonstrate compliance with minimum percentage requirement for thermal energy output set forth above. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit
20. Combustor start-up is defined as any period, not exceeding 96 hours, during which the combustor is set in operation and heated from a lower temperature to a steady state operating temperature. [District Rule 4352] Federally Enforceable Through Title V Permit
21. Combustor shutdown is defined as any period, not exceeding 6 hours, during which the combustor is cooled from its steady state operating temperature to a lower temperature followed by cessation of operation within the 6 hour period. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Particulate matter (PM-10) emission rate shall not exceed 4.31 lb/hr, 0.0111 lb/MMBtu and 0.007 grains/dscf. [District NSR Rule and 40 CFR 60.42 (a)(1)] Federally Enforceable Through Title V Permit
23. Except during periods of combustor start-up and shutdown, sulfur oxide emissions (as SO<sub>2</sub>) shall not exceed 15.47 lb/hr and 0.0398 lb/MM Btu. [District NSR Rule and 40 CFR 60.43 (a)(2)] Federally Enforceable Through Title V Permit
24. Except during periods of startup or shutdown, sulfur dioxide emissions shall not exceed 30% of the potential combustion concentration (70% reduction in potential emissions of sulfur dioxide based on sulfur analysis of "as-fired" fuel). [40CFR60 Subpart Da] Federally Enforceable Through Title V Permit
25. During periods of combustor start-up and shutdown, sulfur oxide emissions (as SO<sub>2</sub>) shall not exceed 0.11 lb/MMBtu, calculated on a daily basis. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Sulfur oxide emissions (as SO<sub>2</sub>) shall not exceed the following quarterly amounts: 1st Qtr., 33,415 lb; 2nd Qtr., 33,786 lb; 3rd Qtr., 34,158 lb; and 4th Qtr., 34,158 lb. [District NSR Rule and 40 CFR 60.43Da] Federally Enforceable Through Title V Permit
27. Except during periods of combustor start-up and shutdown, nitrogen oxides emissions (as NO<sub>2</sub>) shall not exceed 38.90 lb/hr and 0.1000 lb/MMBtu. [District NSR Rule and 40 CFR 60.42 (a)(1), (2)] Federally Enforceable Through Title V Permit
28. During periods of combustor start-up and shutdown, nitrogen oxide emissions (as NO<sub>2</sub>) shall not exceed 0.20 lb/MMBtu, calculated on a daily basis. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Nitrogen oxide emissions (as NO<sub>2</sub>) shall not exceed the following quarterly amounts: 1st Qtr., 84,024 lb; 2nd Qtr., 84,958 lb; 3rd Qtr., 85,891 lb; and 4th Qtr., 85,891 lb. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Volatile organic compound (VOC) emission rate shall not exceed 6.03 lb/hr and 0.0155 lb/MMBtu. [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.

31. Carbon monoxide (CO) emission rate shall not exceed 105.10 lb/hr (3-hour average) and 0.2701 lb/MMBtu. [District NSR Rule & PSD SJ 85-07] Federally Enforceable Through Title V Permit
32. Performance testing shall be conducted annually for NO<sub>x</sub>, SO<sub>x</sub>, CO, VOCs, and PM(10) at the maximum operating capacity using following test methods; for NO<sub>x</sub> EPA Methods 1-4 and 7 or ARB Method 100; for SO<sub>x</sub> EPA Methods 1-4 and 8 or ARB Method 100; for CO EPA Method 1-4 and 10 or ARB Method 100; for VOCs EPA Method 25 or 18; and for PM(10) EPA Method 201A in combination with EPA Method 202. [District Rule 4352, 6.4; District Rule 2520, 9.3.2; PSD SJ 85-07] Federally Enforceable Through Title V Permit
33. The District and EPA must be notified 30 days prior to any performance testing and a test plan shall be submitted for District approval 15 days prior to such testing. [District Rule 1081, 7.1 & PSD SJ 85-07] Federally Enforceable Through Title V Permit
34. Performance testing shall be witnessed or authorized District personnel and EPA. Test results must be submitted to the District within 60 day of performance testing. [District Rule 1081, 7.2, 7.3; 40 CFR 60.51Da (a) & PSD SJ 85-07] Federally Enforceable Through Title V Permit
35. Quarterly, start-up, and shutdown NO<sub>x</sub> and SO<sub>x</sub> emissions shall be measured by maintaining CEM, fuel use and fuel Btu content records, and such records shall be made available for District inspection upon request. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit
36. Permittee shall maintain an operating log containing type and quantity of fuel used and higher heating value of such fuels on daily basis. [District NSR Rule; District Rule 4352, 6.2; PSD SJ 85-07] Federally Enforceable Through Title V Permit
37. All wells producing from strata steamed by this unit shall be connected to a District approved emissions control system, have District approved closed casing vents, or be District approved uncontrolled cyclic wells. [District NSR Rule] Federally Enforceable Through Title V Permit
38. Sulfur fuel of the each type of fuel shall be measured and recorded on monthly basis using current ASTM Methods or shall be certified by supplier for each shipment. [District Rule 2520, 9.3.2; 40 CFR 60.51Da (a) & PSD SJ 85-07] Federally Enforceable Through Title V Permit
39. Operator shall install, operate, and maintain in calibration a system which continuously measures and records control system operating parameters; elapsed time of operation; and exhaust gas opacity, NO<sub>x</sub>, SO<sub>2</sub>, and O<sub>2</sub> (or CO) concentrations. [District NSR Rule; District Rule 1080; 40 CFR 60.49Da(b); 40 CFR 64; & PSD SJ 85-07] Federally Enforceable Through Title V Permit
40. The continuous emissions monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix B; 40 CFR 60, Appendix F; and 40 CFR 51, Appendix P, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.5; 40 CFR 64; and PSD SJ 85-07] Federally Enforceable Through Title V Permit
41. Operator shall install, operate, and maintain in calibration a system which continuously measures and records stack gas volumetric flow rates meeting the performance specifications of 40 CFR Part 52, Appendix E. [40 CFR 64 and PSD SJ 85-07] Federally Enforceable Through Title V Permit
42. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
43. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEMs that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3; 40 CFR 60.52Da; 40 CFR 64; and PSD SJ 85-07] Federally Enforceable Through Title V Permit
44. The permittee shall maintain hourly, daily, and 30-day rolling average records of NO<sub>x</sub> and SO<sub>x</sub> emissions and of the percentage SO<sub>x</sub> reduction. [40 CFR 60.48Da (f); (g), 60.43Da (a), 60.51Da (b), and 40 CFR 64] 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.

45. The permittee shall obtain emission data from the CEMS for at least 22 out of 30 successive boiler operating days for compliance determination. If this minimum data requirement can not be met with the CEMS, the permittee shall supplement the emission data with other monitoring systems approved by the APCO or with the reference methods and procedures described in 40 CFR 60.49(h). [40 CFR 60.49Da(f) and 40 CFR 64] Federally Enforceable Through Title V Permit
46. Permittee shall submit a CEMs written report for each calendar quarter to the District and to EPA. The report is due on the 30th day following the end of the calendar quarter. [District Rule 1080, 8.0; 40 CFR 60.51Da (a); 40 CFR 64; and PSD SJ 85-07] Federally Enforceable Through Title V Permit
47. Quarterly report shall include: time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 2520, 9.5.1; Rule 1080, 8.0; 40 CFR 64; and PSD SJ 85-07] Federally Enforceable Through Title V Permit
48. Any violation of emission standards, as indicated by the CEM, shall be reported by the operator to the APCO within 96 hours. Excess emissions shall be defined as any three-hour period during which emissions of SO<sub>x</sub> or NO<sub>x</sub> as measured by CEM system exceeds the SO<sub>x</sub> and NO<sub>x</sub> maximum emission limits set forth for each the pollutants in this permit. [District Rule 1080, 9.0; 40 CFR 64; and PSD SJ 85-07] Federally Enforceable Through Title V Permit
49. Operator shall notify the District no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the District of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0, and 40 CFR 64] Federally Enforceable Through Title V Permit
50. Permittee shall not discharge or cause the discharge into the atmosphere SO<sub>2</sub> in excess of the more stringent of 14.0 lb/hr or 20 ppm at 3% O<sub>2</sub> (3-hour average) from stack venting from the combustion unit except during periods of startup and shutdown. [PSD SJ 85-07] Federally Enforceable Through Title V Permit
51. Permittee shall not discharge or cause the discharge into the atmosphere NO<sub>x</sub> in excess of the more stringent of 38.9 lb/hr or 78 ppm at 3% O<sub>2</sub> (3-hour average) from stack venting from the combustion unit except during periods of startup and shutdown. [PSD SJ 85-07] Federally Enforceable Through Title V Permit
52. During startup or shutdown, permittee shall not discharge or cause the discharge into the atmosphere SO<sub>2</sub> in excess of 0.11 lb/MMBtu averaged over a 24-hour period. [PSD ATC SJ 85-07] Federally Enforceable Through Title V Permit
53. During startup and shutdown, permittee shall not discharge or cause the discharge into the atmosphere NO<sub>x</sub> in excess of 0.20 lb/MMBtu averaged over a 24-hour period. [PSD ATC SJ 85-07] Federally Enforceable Through Title V Permit
54. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter breakthrough and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
55. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
56. Records of fabric collector filter maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual performing inspection. [District Rule 2520, 9.4.1] 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-883-4-8

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

ASH HANDLING AND LOADOUT OPERATION INCLUDING ENCLOSED CONVEYING SYSTEM FROM COMBUSTION CHAMBER AND FABRIC COLLECTOR HOPPERS, ASH STORAGE SILO AND DRY ASH LOADOUT WITH CO-AXIAL SPOUT VENTED TO FABRIC COLLECTOR, AND ENCLOSED PUG MILL - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. Ash silo shall be dust-tight and shall vent only to fabric collector. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Fabric collector shall have maximum air-to-cloth ratio of 4.5 cfm/sq. ft. filter area. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Fabric collector shall be equipped with automatically activated reverse pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Fabric collector shall be equipped with operational differential pressure indicator, one for each compartment. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Fabric collector shall be equipped with dust-tight provisions to return collected material to ash silo. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Ash shall be sufficiently wetted to prevent visible emissions (as defined in Rule 4101) during loadout. [District Rule 4101] Federally Enforceable Through Title V Permit
7. Dry ash shall be loaded through co-axial telescoping spout vented to fabric collector such that visible emissions are prevented (as defined in Rule 4101). [District Rule 4101] Federally Enforceable Through Title V Permit
8. Trucks shall be completely covered by tarps before being moved. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Ash shall not be transferred into silo or loaded into trucks unless fabric collector is operating. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Particulate matter (PM-10) emission rate (fabric collector exhaust and fugitive emissions) shall not exceed 0.01 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter breakthrough and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Visible emissions from storage silo shall be checked and record results monthly. If visible emissions are observed, corrective action is required prior to further loading. Corrective action means that visible emissions are eliminated before next loading event. [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.

14. Records of fabric collector filter maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual performing inspection. [District Rule 2520, 9.4.1] 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-883-8-4

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

SAND RECEIVING AND STORAGE OPERATION INCLUDING ONE PNEUMATICALLY-FILLED STORAGE SILO WITH FABRIC COLLECTOR

## PERMIT UNIT REQUIREMENTS

---

1. Visible emissions shall not exceed 1/4 Ringelmann or equivalent 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Sand shall not be transferred into silo unless fabric filter baghouse is operating and functioning properly. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Collected fines shall be returned to sand system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sand receiving shall not exceed 48 hr/month. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Silo fabric filter baghouse particulate matter (PM-10) emission rate shall not exceed 0.141 lb/hr and 0.02 gr/scf. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter breakthrough and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Visible emissions from storage silo shall be checked and record results annually. If visible emissions are observed, corrective action is required prior to further loading. Corrective action means that visible emissions are eliminated before next loading event. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of fabric collector filter maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual performing inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. The records of hours of operation of sand receiving system shall be maintained on monthly basis. [District Rule 2520, 9.4.1] 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-883-11-4

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

TRUCK TRANSFER RACK WITH VAPOR RECOVERY INCLUDING FLARE WITH NORTH AMERICAN 4018M GAS PILOT FLAME SENSOR - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. Flare pilot shall be adjusted such that flame extends beyond pilot tube into main combustion chamber. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Flare combustion air ports shall be locked in an open position supplying sufficient air to prevent smoking at all loading rates. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The transfer rack shall be equipped with a system to prevent the release to the atmosphere of at least 95 percent by weight of the volatile organic compounds displaced during the loading of tanker trucks, trailers, or railroad cars. [District Rule 4624, 5.2] Federally Enforceable Through Title V Permit
4. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inched water column pressure and six inches w.c. vacuum. [District Rule 4624, 5.4] Federally Enforceable Through Title V Permit
5. The transfer rack and vapor collection equipment shall be maintained and operated such that there are no leaks and no excess organic liquid drainage at disconnections. [District Rule 4624, 5.6] Federally Enforceable Through Title V Permit
6. Visible emissions shall not exceed 1/4 Ringelmann or equivalent 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Only vapor control equipped, bottom loading, vapor-tight trucks shall be loaded at this facility. [District NSR Rule] Federally Enforceable Through Title V Permit
8. A "Notice of Operators" sign shall be posted at the transfer rack stating that only bottom loading with vapor control is permitted and that loading must be discontinued if the flare is smoking. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Loading line shall be equipped with a shut-off valve immediately upstream of the 3" N.P.T. coupling. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Loading pump shall be electrically interlocked with vapor control check valve adaptor and flare pilot sensor to prevent loading of crude oil when the vapor control line is disconnected and/or the flare is not operating. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Propane gas shall be used as supplemental fuel and pilot fuel to the flare. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The organic liquid loading shall not exceed 20,000 gallons in any one day. [District Rule 4624, 3.9] 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 with vapor collection and control requirements shall be determined when inspection reveals conditions indicative of performance less effective than that during previous compliance determination(s), using 40 CFR 60.503 "Test Methods and Procedures" and EPA Methods 2A, 2B, 25A and 25B and ARB Method 422, or ARB Test Procedure TP-203.1. [District Rule 4624, 6.3.2] Federally Enforceable Through Title V Permit
14. The District must be notified by the permittee 30 days prior to source testing and the permittee shall submit a source test plan for District approval 15 days prior to source sampling. [District Rule 1081] Federally Enforceable Through Title V Permit
15. Source test results must be submitted to the District within 60 days of the completion of field testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Visible emissions shall be checked at least monthly. If visible emissions are observed, an EPA Method 22 observation shall be made. A record containing results of observation shall be maintained including observer's name, affiliation, date, time, wind speed, wind direction, and observer's location relative to the sun. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
18. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
19. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit
20. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311, 5.5] Federally Enforceable Through Title V Permit
21. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2] 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-883-12-4

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF WASH TANK WITH VAPOR RECOVERY AND PRESSURE/VACUUM VENT - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.1 and 5.6.1.2] Federally Enforceable Through Title V Permit
2. Tank vapors shall vent only to vapor collection system and discharge only to flare serving truck transfer rack described in Permit No. S-883-11. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Pressure/vacuum vent shall be set to relieve at a pressure higher than required to activate vapor compressor. [District NSR Rule] Federally Enforceable Through Title V Permit
4. All piping valves and fittings shall be constructed and maintained in a leak-free condition [District Rule 4623] Federally Enforceable Through Title V Permit
5. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623] Federally Enforceable Through Title V Permit
6. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess of 10,000 ppmv above background or the dripping of organic liquid at a rate of more than 3 drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
7. Permittee shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank being degassed, 2) the date and time that tank degassing and cleaning activities will begin, 3) the degassing method, as allowed in this permit, to be used, 4) the method to be used to clean the tank, including any solvents to be used, and 5) the method to be used to dispose of any removed sludge, including methods that will be used to control emissions from the receiving vessel and emissions during transport. [District Rule 4623, 5.7.5.1] Federally Enforceable Through Title V Permit
8. Operator shall maintain records of tank cleaning activities for a period of 5 years and present said records to the APCO upon request. [District Rule 4623, 5.7.5.2, 6.3] Federally Enforceable Through Title V Permit
9. This tank shall be degassed before commencing interior cleaning by exhausting VOCs contained in the tank vapor space to an APCO-approved vapor recovery system until the organic vapor concentration is 5,000 ppmv or less, or is 10 percent or less of the lower explosion limit (LEL), whichever is less. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit

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

10. During tank degassing, the operator shall discharge or displace organic vapors contained in the tank vapor space to an APCO-approved vapor recovery system. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
11. To facilitate connection to an external APCO-approved recovery system, a suitable tank fitting, such as a manway, may be temporarily removed for a period of time not to exceed 1 hour. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
12. This tank shall be in compliance with the applicable requirements of District Rule 4623 at all times during draining, degassing, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
13. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 4623, 5.7.5.5] Federally Enforceable Through Title V Permit
14. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 4623, 5.7.5.5] Federally Enforceable Through Title V Permit
15. During sludge removal, the operator shall control emissions from the sludge receiving vessel by operating an APCO-approved vapor control device that reduces emissions of organic vapors by at least 95%. [District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
16. Permittee shall only transport removed sludge in closed, liquid leak-free containers. [District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
17. Permittee shall store removed sludge, until final disposal, in vapor leak-free containers, or in tanks complying with the vapor control requirements of District Rule 4623. Sludge that is to be used to manufacture roadmix, as defined in District Rule 2020, is not required to be stored in this manner. Roadmix manufacturing operations exempt pursuant to District Rule 2020 shall maintain documentation of their compliance with Rule 2020, and shall readily make said documentation available for District inspection upon request. [District Rule 2020 and District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
18. All piping, fittings, and valves on this tank shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the leaking provisions of this permit. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
19. If any of the tank components are found to be leaking, operator shall immediately affix a tag and maintain records of gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
20. Upon detection of any leaking components (having a gas leak >10,000 ppmv, measured in accordance with EPA Method 21 by a portable hydrocarbon detection instrument that is calibrated with methane) operator shall: (a) Eliminate or minimize the leak within 8 hours after detection. (b) If the leak can not be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and eliminate the leak within 48 hours after detection. (c) In no event that the total time to minimize and eliminate the leak shall exceed 56 hours after detection. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
21. Leaking tank components affixed to the tank or within five feet of the tank that have been discovered by the operator and that have been immediately tagged and repaired within the specified deadlines, shall not constitute a violation of the District Rule 4623. 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 specified deadlines, shall constitute a violation of the District Rule 4623. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
22. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections. [District Rule 4623, 5.7 (Table 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.

23. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
24. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. The control efficiency of any VOC destruction 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. US EPA Method 18 may be used in lieu of US EPA Method 25 or US 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 the known analytes/compounds to ensure that the VOC concentrations are neither under- or over-reported. Analysis of halogenated exempt compounds shall be analyzed by ARB Method 422 "Exempt Halogenated VOCs in Gases September 12, 1990." [District Rule 4623]
26. The operator shall ensure that the vapor recovery system is functional and operating as designed at all the times. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. Operator shall monitor vapor recovery compressor activation and shut off manometer pressures on quarterly basis to ensure that compressor activation pressure does not exceed pressure relief valve setting. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. Operator shall inspect pressure relief valve for fugitive leaks annually in accordance with EPA Method 21, with the instrument calibrated with methane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, 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. [District Rule 4623, 5.2] 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-883-13-4

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY AND PRESSURE/VACUUM VENT - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.1 and 5.6.1.2] Federally Enforceable Through Title V Permit
2. Tank vapors shall vent only to vapor collection system and discharge only to flare serving truck transfer rack described in Permit No. S-883-11. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Pressure/vacuum vent shall be set to relieve at a pressure higher than required to activate vapor compressor. [District NSR Rule] Federally Enforceable Through Title V Permit
4. All piping valves and fittings shall be constructed and maintained in a leak-free condition [District Rule 4623] Federally Enforceable Through Title V Permit
5. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623] Federally Enforceable Through Title V Permit
6. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess of 10,000 ppmv above background or the dripping of organic liquid at a rate of more than 3 drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
7. Permittee shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank being degassed, 2) the date and time that tank degassing and cleaning activities will begin, 3) the degassing method, as allowed in this permit, to be used, 4) the method to be used to clean the tank, including any solvents to be used, and 5) the method to be used to dispose of any removed sludge, including methods that will be used to control emissions from the receiving vessel and emissions during transport. [District Rule 4623, 5.7.5.1] Federally Enforceable Through Title V Permit
8. Operator shall maintain records of tank cleaning activities for a period of 5 years and present said records to the APCO upon request. [District Rule 4623, 5.7.5.2, 6.3] Federally Enforceable Through Title V Permit
9. This tank shall be degassed before commencing interior cleaning by exhausting VOCs contained in the tank vapor space to an APCO-approved vapor recovery system until the organic vapor concentration is 5,000 ppmv or less, or is 10 percent or less of the lower explosion limit (LEL), whichever is less. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit

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

10. During tank degassing, the operator shall discharge or displace organic vapors contained in the tank vapor space to an APCO-approved vapor recovery system. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
11. To facilitate connection to an external APCO-approved recovery system, a suitable tank fitting, such as a manway, may be temporarily removed for a period of time not to exceed 1 hour. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
12. This tank shall be in compliance with the applicable requirements of District Rule 4623 at all times during draining, degassing, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
13. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 4623, 5.7.5.5] Federally Enforceable Through Title V Permit
14. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 4623, 5.7.5.5] Federally Enforceable Through Title V Permit
15. During sludge removal, the operator shall control emissions from the sludge receiving vessel by operating an APCO-approved vapor control device that reduces emissions of organic vapors by at least 95%. [District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
16. Permittee shall only transport removed sludge in closed, liquid leak-free containers. [District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
17. Permittee shall store removed sludge, until final disposal, in vapor leak-free containers, or in tanks complying with the vapor control requirements of District Rule 4623. Sludge that is to be used to manufacture roadmix, as defined in District Rule 2020, is not required to be stored in this manner. Roadmix manufacturing operations exempt pursuant to District Rule 2020 shall maintain documentation of their compliance with Rule 2020, and shall readily make said documentation available for District inspection upon request. [District Rule 2020 and District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
18. All piping, fittings, and valves on this tank shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the leaking provisions of this permit. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
19. If any of the tank components are found to be leaking, operator shall immediately affix a tag and maintain records of gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
20. Upon detection of any leaking components (having a gas leak >10,000 ppmv, measured in accordance with EPA Method 21 by a portable hydrocarbon detection instrument that is calibrated with methane) operator shall: (a) Eliminate or minimize the leak within 8 hours after detection. (b) If the leak can not be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and eliminate the leak within 48 hours after detection. (c) In no event that the total time to minimize and eliminate the leak shall exceed 56 hours after detection. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
21. Leaking tank components affixed to the tank or within five feet of the tank that have been discovered by the operator and that have been immediately tagged and repaired within the specified deadlines, shall not constitute a violation of the District Rule 4623. 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 specified deadlines, shall constitute a violation of the District Rule 4623. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
22. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections. [District Rule 4623, 5.7 (Table 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.

23. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
24. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. The control efficiency of any VOC destruction 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. US EPA Method 18 may be used in lieu of US EPA Method 25 or US 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 the known analytes/compounds to ensure that the VOC concentrations are neither under- or over-reported. Analysis of halogenated exempt compounds shall be analyzed by ARB Method 422 "Exempt Halogenated VOCs in Gases September 12, 1990." [District Rule 4623]
26. The operator shall ensure that the vapor recovery system is functional and operating as designed at all the times. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. Operator shall monitor vapor recovery compressor activation and shut off manometer pressures on quarterly basis to ensure that compressor activation pressure does not exceed pressure relief valve setting. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. Operator shall inspect pressure relief valve for fugitive leaks annually in accordance with EPA Method 21, with the instrument calibrated with methane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, 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. [District Rule 4623, 5.2] 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-883-14-4

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY AND PRESSURE/VACUUM VENT - POSO CREEK

## PERMIT UNIT REQUIREMENTS

---

1. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.1 and 5.6.1.2] Federally Enforceable Through Title V Permit
2. Tank vapors shall vent only to vapor collection system and discharge only to flare serving truck transfer rack described in Permit No. S-883-11. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Pressure/vacuum vent shall be set to relieve at a pressure higher than required to activate vapor compressor. [District NSR Rule] Federally Enforceable Through Title V Permit
4. All piping valves and fittings shall be constructed and maintained in a leak-free condition [District Rule 4623] Federally Enforceable Through Title V Permit
5. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623] Federally Enforceable Through Title V Permit
6. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess of 10,000 ppmv above background or the dripping of organic liquid at a rate of more than 3 drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
7. Permittee shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank being degassed, 2) the date and time that tank degassing and cleaning activities will begin, 3) the degassing method, as allowed in this permit, to be used, 4) the method to be used to clean the tank, including any solvents to be used, and 5) the method to be used to dispose of any removed sludge, including methods that will be used to control emissions from the receiving vessel and emissions during transport. [District Rule 4623, 5.7.5.1] Federally Enforceable Through Title V Permit
8. Operator shall maintain records of tank cleaning activities for a period of 5 years and present said records to the APCO upon request. [District Rule 4623, 5.7.5.2, 6.3] Federally Enforceable Through Title V Permit
9. This tank shall be degassed before commencing interior cleaning by exhausting VOCs contained in the tank vapor space to an APCO-approved vapor recovery system until the organic vapor concentration is 5,000 ppmv or less, or is 10 percent or less of the lower explosion limit (LEL), whichever is less. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit

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

10. During tank degassing, the operator shall discharge or displace organic vapors contained in the tank vapor space to an APCO-approved vapor recovery system. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
11. To facilitate connection to an external APCO-approved recovery system, a suitable tank fitting, such as a manway, may be temporarily removed for a period of time not to exceed 1 hour. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
12. This tank shall be in compliance with the applicable requirements of District Rule 4623 at all times during draining, degassing, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater. [District Rule 4623, 5.7.5.4] Federally Enforceable Through Title V Permit
13. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 4623, 5.7.5.5] Federally Enforceable Through Title V Permit
14. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 4623, 5.7.5.5] Federally Enforceable Through Title V Permit
15. During sludge removal, the operator shall control emissions from the sludge receiving vessel by operating an APCO-approved vapor control device that reduces emissions of organic vapors by at least 95%. [District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
16. Permittee shall only transport removed sludge in closed, liquid leak-free containers. [District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
17. Permittee shall store removed sludge, until final disposal, in vapor leak-free containers, or in tanks complying with the vapor control requirements of District Rule 4623. Sludge that is to be used to manufacture roadmix, as defined in District Rule 2020, is not required to be stored in this manner. Roadmix manufacturing operations exempt pursuant to District Rule 2020 shall maintain documentation of their compliance with Rule 2020, and shall readily make said documentation available for District inspection upon request. [District Rule 2020 and District Rule 4623, 5.7.5.6] Federally Enforceable Through Title V Permit
18. All piping, fittings, and valves on this tank shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the leaking provisions of this permit. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
19. If any of the tank components are found to be leaking, operator shall immediately affix a tag and maintain records of gas leak detection readings, date/time leak was discovered, and date/time the component was repaired to a leak-free condition. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
20. Upon detection of any leaking components (having a gas leak >10,000 ppmv, measured in accordance with EPA Method 21 by a portable hydrocarbon detection instrument that is calibrated with methane) operator shall: (a) Eliminate or minimize the leak within 8 hours after detection. (b) If the leak can not be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and eliminate the leak within 48 hours after detection. (c) In no event that the total time to minimize and eliminate the leak shall exceed 56 hours after detection. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
21. Leaking tank components affixed to the tank or within five feet of the tank that have been discovered by the operator and that have been immediately tagged and repaired within the specified deadlines, shall not constitute a violation of the District Rule 4623. 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 specified deadlines, shall constitute a violation of the District Rule 4623. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
22. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections. [District Rule 4623, 5.7 (Table 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.

23. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rule 4623, 5.7 (Table 3)] Federally Enforceable Through Title V Permit
24. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date and time of leak detection, and method of detection; 3) Date and time of leak repair, and emission level of recheck after leak is repaired; 4) Method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. The control efficiency of any VOC destruction 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. US EPA Method 18 may be used in lieu of US EPA Method 25 or US 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 the known analytes/compounds to ensure that the VOC concentrations are neither under- or over-reported. Analysis of halogenated exempt compounds shall be analyzed by ARB Method 422 "Exempt Halogenated VOCs in Gases September 12, 1990." [District Rule 4623]
26. The operator shall ensure that the vapor recovery system is functional and operating as designed at all the times. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. Operator shall monitor vapor recovery compressor activation and shut off manometer pressures on quarterly basis to ensure that compressor activation pressure does not exceed pressure relief valve setting. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. Operator shall inspect pressure relief valve for fugitive leaks annually in accordance with EPA Method 21, with the instrument calibrated with methane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, 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. [District Rule 4623, 5.2] 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-883-15-3

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

SIX STEAM DRIVE WELLS WITH CLOSED CASING VENTS

## PERMIT UNIT REQUIREMENTS

---

1. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801, 3.0] Federally Enforceable Through Title V Permit
2. Gas and liquid leaks are as defined in Section 3.20 of Rule 4401 (amended 12/14/06). [District Rule 4401 3.20] Federally Enforceable Through Title V Permit
3. An operator shall not operate a steam-enhanced crude oil production well unless the operator complies with either of the following requirements: 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 of Rule 4401 (amended 12/14/06), 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, or 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 of Rule 4401. [District Rule 4401, 5.5.1 and 5.5.2] Federally Enforceable Through Title V Permit
4. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.8 of Rule 4401 (amended 12/14/06) demonstrates the 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 as defined by Section 5.6.2.1 of Rule 4401 requiring process fluid flow through the open-ended lines, a component with a major liquid leak, or a component with a gas leak greater than 50,000 ppmv. [District Rule 4401 5.6.2] Federally Enforceable Through Title V Permit
5. An operator shall be in violation of this rule if any District inspection demonstrates or if any operator inspection conducted pursuant to Section 5.8 of Rule 4401 demonstrates the existence of any combination of components with minor liquid leaks, minor gas leaks, or a gas leaks greater than 10,000 ppmv up to 50,000 ppmv that totals more than number of leaks allowed by Table 3 of Rule 4401 (amended 12/14/06). [District Rule 4401 5.6.2] Federally Enforceable Through Title V Permit
6. An operator shall not use any component with a leak as defined in Section 3.0 of Rule 4401 (amended 12/14/06), or that is found to be in violation of the provisions of Section 5.6.2 of Rule 4401. 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 Rule 4401. [District Rule 4401 5.7.1] Federally Enforceable Through Title V Permit
7. 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. [District Rule 4401 5.7.2] 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.

8. An operator shall comply with the requirements of Section 6.7 of Rule 4401 (amended 12/14/06) if there is any change in the description of major components or critical components. [District Rule 4401 5.7.3] Federally Enforceable Through Title V Permit
9. Except for pipes and unsafe-to-monitor components, an operator shall inspect all other components pursuant to the requirements of Section 6.3.3 of Rule 4401 (amended 12/14/06) at least once every year. [District Rule 4401 5.8.1] Federally Enforceable Through Title V Permit
10. 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 Rule 4401 (amended 12/14/06). [District Rule 4401 5.8.2] Federally Enforceable Through Title V Permit
11. In addition to the inspections required by Section 5.8.1 of Rule 4401 (amended 12/14/06), an operator shall inspect for leaks all accessible operating pumps, compressors, and PRDs in service as follows: 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. 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 Rule 4401. [District Rule 4401 5.8.3] Federally Enforceable Through Title V Permit
12. In addition to the inspections required by Sections 5.8.1, 5.8.2 and 5.8.3 of Rule 4401 (amended 12/14/06), operator shall perform the following: 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, re-inspect the PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the initial inspection, inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service. Except for PRDs subject to the requirements of Section 5.8.4.1 of Rule 4401, 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. [District Rule 4401 5.8.4] Federally Enforceable Through Title V Permit
13. An operator shall inspect all unsafe-to-monitor components during each turnaround. [District Rule 4401 5.8.5] Federally Enforceable Through Title V Permit
14. 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. [District Rule 4401 5.8.6] Federally Enforceable Through Title V Permit
15. An operator shall affix a readily visible weatherproof tag to a leaking component upon detection of the leak and shall include the following information on the tag: date and time of leak detection, date and time of leak measurement, for a gaseous leak, the leak concentration in ppmv, for a liquid leak, whether it is a major liquid leak or a minor liquid leak, whether the component is an essential component, an unsafe-to monitor component, or a critical component. [District Rule 4401 5.9.1] Federally Enforceable Through Title V Permit
16. An operator shall keep the tag affixed to the component until an operator has met all of the following conditions: repaired or replaced the leaking component, re-inspected the component using the test method in Section 6.3.3, and 5.9.2.3 of Rule 4401 (amended 12/14/06), or the component is found to be in compliance with the requirements of this rule. [District Rule 4401 5.9.2] Federally Enforceable Through Title V Permit
17. 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 (1) hour after detection of the leak. [District Rule 4401 5.9.3] 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.



18. Except for leaking critical components or leaking essential components subject to the requirements of Section 5.9.7 of Rule 4401 (amended 12/14/06), if an operator has minimized a leak but the leak still exceeds the applicable leak limits as defined in Section 3.0 of Rule 4401, an operator shall comply with at least one of the following requirements as soon as practicable but not later than the time period specified in Table 4 of Rule 4401: Repair or replace the leaking component; or vent the leaking component to a VOC collection and control system as defined in Section 3.0 of Rule 4401, or remove the leaking component from operation. [District Rule 4401 5.9.4] Federally Enforceable Through Title V Permit
19. The repair period in calendar days shall not exceed 14 days for minor gas leaks, 5 days for major gas leaks less than or equal to 50,000 ppmv, 2 days for gas leak greater than 50,000 ppmv, 3 days for minor liquid leaks, 2 days for major liquid leaks. [District Rule 4401 5.9.4] Federally Enforceable Through Title V Permit
20. 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 of Rule 4401 (amended 12/14/06). [District Rule 4401 5.9.5] Federally Enforceable Through Title V Permit
21. The time of the initial leak detection shall be the start of the repair period specified in Table 4 of Rule 4401 (amended 12/14/06). [District Rule 4401 5.9.6] Federally Enforceable Through Title V Permit
22. 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. [District Rule 4401 5.9.7] Federally Enforceable Through Title V Permit
23. 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. [District Rule 4401 6.1.1] Federally Enforceable Through Title V Permit
24. 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 of Rule 4401 (amended 12/14/06). [District Rule 4401 6.1.3] Federally Enforceable Through Title V Permit
25. The results of source tests conducted pursuant to Section 4.6.2 of Rule 4401 shall be submitted to the APCO within 60 days after the completion of the source test. [District Rule 4401 6.1.4] Federally Enforceable Through Title V Permit
26. Operator of any steam-enhanced crude oil production well shall keep an inspection log maintained pursuant to Section 6.4 of Rule 4401 (amended 12/14/06). [District Rule 4401 6.1.5] Federally Enforceable Through Title V Permit
27. 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 shall be maintained. [District Rule 4401 6.1.6] Federally Enforceable Through Title V Permit
28. An operator shall maintain copies at the facility of the training records of the training program operated pursuant to Section 6.5 of Rule 4401 (amended 12/14/06). [District Rule 4401 6.1.7] Federally Enforceable Through Title V Permit
29. Operator shall keep a copy of the APCO-approved Operator Management Plan at the facility. [District Rule 4401 6.1.8] Federally Enforceable Through Title V Permit
30. Operator shall submit to the APCO 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. [District Rule 4401 6.1.9] Federally Enforceable Through Title V Permit
31. 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. [District Rule 4401 6.1.10] 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.

32. 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. [District Rule 4401 6.1.11] Federally Enforceable Through Title V Permit
33. 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. [District Rule 4401 6.2.1] Federally Enforceable Through Title V Permit
34. 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. [District Rule 4401 6.2.2] Federally Enforceable Through Title V Permit
35. 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. [District Rule 4401 6.2.3] Federally Enforceable Through Title V Permit
36. 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. [District Rule 4401 6.2.4] Federally Enforceable Through Title V Permit
37. An operator shall comply with the following requirements for each gauge tank, as defined in Section 3.17 of Rule 4401 (amended 12/14/06): 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. 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 of Rule 4401. [District Rule 4401 6.2.5] Federally Enforceable Through Title V Permit
38. 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. [District Rule 4401 6.3.1] Federally Enforceable Through Title V Permit
39. 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. [District Rule 4401 6.3.2] Federally Enforceable Through Title V Permit
40. 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. [District Rule 4401 6.3.3] 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.

41. 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. [District Rule 4401 6.3.5] Federally Enforceable Through Title V Permit
42. Operator shall maintain an inspection log in which an operator records, at a minimum, all of the following information for each inspection performed: The total number of components inspected, total number and percentage of leaking components found by component type, location, type, and name or description of each leaking component and description of any unit where the leaking component is found, date of leak detection and the method of leak detection. 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. the date of repair, replacement, or removal from operation of leaking components, 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, 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, the date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced, the inspector's name, business mailing address, and business telephone number, date and signature of the facility operator responsible for the inspection and repair program certifying the accuracy of the information recorded in the log. [District Rule 4401 6.4] 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-883-25-6

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

195 BHP DETROIT DIESEL MODEL DDFP-08GT4371 EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

## PERMIT UNIT REQUIREMENTS

---

1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.3 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 4.3 and 17 CCR 93115] 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, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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 Rules 4702, 6.2, and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] 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. 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 4702, 6.2, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-883-26-4

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

112 BHP WAUKESHA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FEEDWATER PUMP

## PERMIT UNIT REQUIREMENTS

---

1. The engine shall be equipped with a non-resettable elapsed-time meter indicating total hours of operation. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.05% sulfur by weight is to be used. [District NSR Rule and Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
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. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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 year. [District NSR Rule and Rules 4701, 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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.), the type of fuel used, and records of operational characteristics monitoring. 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 4701, and 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.

12. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]  
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-883-29-6

**EXPIRATION DATE:** 01/31/2015

**SECTION:** SW28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

23,150 GPM 1375 H.P. COOLING TOWER-RIO BRAVO POSO COGENERATION PLANT

## PERMIT UNIT REQUIREMENTS

---

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012]
2. Cooling tower drift shall not exceed 0.005%. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total dissolved solids (TDS) in cooling tower water shall not exceed 4 g/l. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Recirculating water flow rate shall not exceed 23,150 gallons per minute. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Compliance with TDS limit shall be determined by cooling water sample analysis by independent laboratory within 60 days of initial operation and monthly thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
6. Records of the cooling tower recirculating water flow rate and cooling tower water TDS shall be kept at the facility and made readily available for District inspection upon request for 5 years. [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-883-30-5

**EXPIRATION DATE:** 01/31/2015

**SECTION:** 28 **TOWNSHIP:** 27S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

435 BHP CUMMINS MODEL NTA-855 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN AIR COMPRESSOR

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
5. 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]
6. The diesel engine shall be operated with an initial injection timing setting of 16 degrees BTDC (Before Top Dead Center) or less. [District NSR Rule] Federally Enforceable Through Title V Permit
7. This IC engine shall be equipped with a catalytic particulate filter. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. Emissions from this IC engine shall not exceed any of the following limits: 7.9 g-NOx/bhp-hr, 0.8 g-CO/bhp-hr, or 0.31 g-VOC/bhp-hr. [District NSR Rule, 13 CCR 2423, and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. Emissions from this IC engine shall not exceed 0.075 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District NSR Rule, 4102, 13 CCR 2423, and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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 50 hours per year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. 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, 5.7.2] 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. 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, 5.7.3] 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, 6.2.3 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. 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, 6.2.3 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-883-31-3

**EXPIRATION DATE:** 01/31/2015

**EQUIPMENT DESCRIPTION:**

450 TON (15,000 FT<sup>3</sup>) CAPACITY REFINERY COKE STORAGE SILO EQUIPPED WITH BHA MODEL SPJ-24-X4B8BV VENT FILTER BAGHOUSE, FEED AND TRUCK LOADING PNEUMATIC CONVEYOR SYSTEMS

## PERMIT UNIT REQUIREMENTS

---

1. Coke storage silo loading rate from trucks shall not exceed 240 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Concentration of PM10 in coke storage silo baghouse exhaust shall not exceed 0.02 gr/scf. [District NSR Rule] Federally Enforceable Through Title V Permit
3. There shall be no visible emissions during unloading of coke from silo to boiler. [District NSR Rule] Federally Enforceable Through Title V Permit
4. No air contaminant shall be discharged into the atmosphere from coke storage silo baghouse exhaust for a period or periods aggregating more than 3 minutes in any one hour which is dark or darker than Ringelmann 1/4 or equivalent to 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Daily records of coke storage silo loading rate in tons/day shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule and 1070] Federally Enforceable Through Title V Permit
6. The bin vent filter located on top of the coke silo shall be inspected weekly during silo loading for any visible emissions. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further loading. Corrective action shall eliminate visible emissions before next loading event. The result of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Permittee shall perform a complete vent filter inspection during each calendar quarter. Vent filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Records of vent filter maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The permittee shall maintain, and make available for District inspection, 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

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