



**NOV - 3 2009**

Debra Monterroso  
Crimson Resource Management  
5001 California Ave, Suite 206  
Bakersfield, CA 93309

**Re: Notice of Final Action - Title V Permit Renewal  
District Facility # S-48  
Project # S-1080780**

Dear Ms. Monterroso:

The District has issued the Final Renewed Title V Permit for Crimson Resource Management. The preliminary decision for this project was made on August 20, 2009. No comments were received subsequent to the District preliminary decision.

The public notice for issuance of the Final Renewed Title V Permit will 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: Chay Thao, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**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



NOV - 3 2009

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-48  
Project # S-1080780**

Dear Mr. Tollstrup:

The District has issued the Final Renewed Title V Permit for Crimson Resource Management. The preliminary decision for this project was made on August 20, 2009. No comments were received subsequent to the District preliminary decision.

The public notice for issuance of the Final Renewed Title V Permit will 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: Chay Thao, Permit Services Engineer

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**NOV - 3 2009**

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-48  
Project # S-1080780**

Dear Mr. Rios:

The District has issued the Final Renewed Title V Permit for Crimson Resource Management. The preliminary decision for this project was made on August 20, 2009. No comments were received subsequent to the District preliminary decision.

The public notice for issuance of the Final Renewed Title V Permit will 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: Chay Thao, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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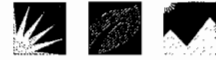
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34946 Flyover Court  
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Tel: 661-392-5500 FAX: 661-392-5585

Bakersfield Californian

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

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the renewed Federally Mandated Operating Permit to Crimson Resource Management for its gas plant located at Section 01, Township 32 South, Range 23 East , in Kern County, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1080780, 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-48

**EXPIRATION DATE:** 08/31/2013

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

CRIMSON RESOURCE MANAGEMENT  
5001 CALIFORNIA AVENUE, SUITE 206  
ENV. H & S ENGINEER  
BAKERSFIELD, CA 93309

**FACILITY LOCATION:**

1-C GAS PLANT  
TAFT, CA

**FACILITY DESCRIPTION:**

GAS PLANT

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-48-0-3

EXPIRATION DATE: 08/31/2013

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; Kern County Rule 111] 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] 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 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-0-3 Nov 2 2009 1:04PM - KEASTMD

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101] 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 the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) 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 (10/31/01). [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 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 82, Subpart B. [40 CFR 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 or Rule 8011. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 or Rule 8011. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 or Rule 8011. [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 or Rule 8011. [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 or Rule 8011. [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. 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 or Rule 8011. [District Rules 8011 and Rule 8071] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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



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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin October, 21 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
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Kern) and Rule 111 (Kern). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-48-1-12

EXPIRATION DATE: 08/31/2013

SECTION: 01 TOWNSHIP: 32S RANGE: 23E

## EQUIPMENT DESCRIPTION:

3.2 MMBTU/HR GAS PLANT INCLUDING: COMPRESSION SYSTEM, DRIP CONDITIONING SYSTEM, GLYCOL SYSTEM, SEPARATION SYSTEM, FRACTIONATION SYSTEM, HEATING SYSTEM, REFRIGERATION SYSTEM, COOLING WATER SYSTEM, MOLECULAR SIEVE SYSTEM, CO2 SCRUBBER SYSTEM, AND SMOKELESS EMERGENCY FLARE

## PERMIT UNIT REQUIREMENTS

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1. Glycol reboiler shall only vent to vapor control system, including air cooled heat exchanger and gas/liquid separator vessel. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Glycol reboiler vapor control system shall vent to any of the following compressor #'s K-12 (permit # S-48-9), K-14, K-15, and K-16 (permit # S-48-10). [District NSR Rule] Federally Enforceable Through Title V Permit
3. All pressure relief valves shall not vent to atmosphere except during breakdown conditions as described in Rule 1100, section 3.0. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Emissions rates from heater (H-1) shall not exceed the following: PM10: 0.025 lb/hr, SOx (as SO2): 0.004 lb/hr, NOx (as NO2): 0.48 lb/hr, VOC: 0.025 lb/hr, CO: 0.096 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Fugitive VOC emission rate shall not exceed 67.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Fugitive VOC emission rate from MEA CO2 scrubber shall be less than 0.5 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
7. H2S content of natural gas processed by the MEA CO2 scrubber shall not exceed 7.41 ppmv. [District NSR Rule and 4201] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999) Oil and Gas Production Screening Value Range emission factors. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
10. The H2S content of the natural gas processed by the MEA CO2 scrubber shall be tested weekly except that if compliance with the gas H2S content limit is demonstrated for 6 consecutive weeks, then the testing frequency shall be monthly. If there is a change in composition of processed gas or if a test shows noncompliance with the sulfur content limit, the source must return to weekly testing until eight consecutive weeks show compliance. The H2S content shall be determined using grab sample analysis by double GC performed in the laboratory. Samples shall be drawn prior to the inlet of the CO2 scrubber. [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.

11. Each owner or operator of a facility with a design capacity less than 2 LT/D of H<sub>2</sub>S in the acid gas (expressed as sulfur) shall keep, for the life of the facility, an analysis demonstrating that the facility's design capacity is less than 2 LT/D of H<sub>2</sub>S expressed as sulfur. [40 CFR 60.647(c)] Federally Enforceable Through Title V Permit
12. Gas plant shall include electrified field booster compressor (formerly PTO S-2199-22-0) located at Section 31, T12N, R23W. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Valves, flanges, seals on pumps and compressors and heat exchangers shall be maintained to prevent the emission of volatile organic compounds. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Hot oil heater shall be fired on natural gas only. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Total sulfur content of natural gas combusted shall not exceed 0.30 grain/100 scf. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Operation of flare for other than maintenance and testing shall be limited to unforeseen electrical power outages or emergencies (as defined below) that results in the inability to dispose of the vapors in devices approved for that purpose. Emergency is defined as an unforeseeable failure or malfunction of operating equipment that 1) is not due to neglect or disregard of air pollution laws or rules; 2) is not intentional or the result of negligence; 3) is not due to improper maintenance; 4) does not constitute a nuisance; and 5) results in the use of equipment exempted from offsets by Rule 2201 to prevent or ameliorate an unsafe situation. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The owner or operator shall notify the District of any emergency use of the flare as soon as reasonably possible, but no later than one hour after initiation of its use unless the owner or operator demonstrates to the District's satisfaction that a longer notification period was necessary [District Rule 1070] Federally Enforceable Through Title V Permit
18. The permittee shall report to the District in writing within ten days following the emergency use of the flare. The report shall include 1) a statement that the failure or malfunction has been corrected, the date corrected, and proof of correction; 2) a specific statement of the reason or cause for the occurrence; 3) a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and 4) an estimate of the emissions caused by the emergency use. [District Rule 1070] Federally Enforceable Through Title V Permit
19. Operation of flare shall not exceed 200 hours per year for purposes of flare maintenance and testing. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Smokeless flare combustion air assist fan shall be capable of supplying 100% of stoichiometric combustion air requirements. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Produced gas shall be piped only to fuel gas system or sales gas pipeline. [District NSR Rule] Federally Enforceable Through Title V Permit
22. A leak is defined 1) a reading as methane in excess of 10,000 ppm above background when measured in accordance with EPA Method 21, or 2) liquids dripping so that there is any visible leakage from the seal, including spraying, misting, clouding, and ice formation. [40 CFR 60.481 and 482-2(b)(1)] Federally Enforceable Through Title V Permit
23. An instrument used for leak detection shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: A) zero air (less than 10 ppm of hydrocarbon in air) and B) mixture of methane and air at a concentration of about, but less than 10,000 ppm methane. [40 CFR 60.485(b)] Federally Enforceable Through Title V Permit
24. Each piece of equipment or component subject to requirements of this permit unit shall be presumed to be in VOC service or in wet gas service unless operator demonstrates otherwise and shall be tested for compliance with leak emission limits. [40 CFR 60.485(d) and 60.632(f)] Federally Enforceable Through Title V Permit

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

25. All components, excluding flanges and threaded connections, handling VOCs shall be inspected at least quarterly to detect any leaks. If less than two (2) percent of any component type subject to the prohibitions of this permit, except for pressure relief valves, pumps, and compressors, are found to leak during each of five (5) consecutive quarterly inspections, the inspection frequency for that component type may be changed from quarterly to annual. If any annual inspection shows that two (2) percent or more of all of a specific component type subject to the prohibitions of this permit are leaking, then quarterly inspections of that component type shall be resumed. All flanges and threaded connections handling VOCs shall be inspected at least annually to detect any leaks. [40 CFR 60.483-1(b)(1), 60.483-2(b)(3), 60.483-2(b)(4)] Federally Enforceable Through Title V Permit
26. The operator shall notify the APCO if they have elected to comply with the allowable percentage of leaking valves provisions of this permit 90 days before implementing this alternative. [40 CFR 60.483-1(b)(1) and (d), and 60.487(d)] Federally Enforceable Through Title V Permit
27. A performance test shall be conducted initially upon designation for allowable percentage of leaking valves, annually, and at other times requested by the APCO. The performance test shall be conducted as follows: 1) all valves in gas/vapor and light liquid service shall be monitored within 1 week using EPA Method 21 and 2) the leak percentage shall be determined by dividing the number of leaking valves detected and valves for which repair has been delayed by the number of valves in gas/vapor and light liquid service in this permit unit, and 3) a record must be kept of the percent of valves found leaking during each leak detection period. [40 CFR 60.483-1(b)(2) and (c) and 60.483-2(b)(5) and (6)] Federally Enforceable Through Title V Permit
28. When any component leak is detected or identified by a Notice to Repair, it shall be repaired to a leak-free condition and reinspected no later than 15 calendar days after detection. A first attempt at repair shall be made no later than 5 calendar days after leak detection. [District Rules 2520, 9.1; 40 CFR 60.482-2(c)(1) and (c)(2), 60.482-3(g), 60.633(b)(3), 60.482-7(d), and 60.482-8(c)] Federally Enforceable Through Title V Permit
29. Delay of leak repair will be allowed if the repair is technologically infeasible without a process unit shutdown and the leaking component is an essential part of a critical process identified in the operator management plan and the leak has been minimized within 15 calendar days. If the valve leak which has been minimized still exceeds the limit in this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but no later than one year from the date of the original leak detection. If the pump leak which has been minimized still exceeds the limit in this permit requires the use of a dual mechanical seal system that includes a barrier fluid system, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but no later than six months from the date of the original leak detection. Delay of repair is allowed for equipment which is isolated from the process and which does not remain in VOC service. [40 CFR 60.482-2(c)(1) & 60.482-9(a)&(b)] Federally Enforceable Through Title V Permit
30. Equipment that is in vacuum service is exempt from the control and monitoring requirements and work practice standards of this permit unit, provided it is identified as such in the equipment log required by this permit. [40 CFR 60.482-1(d)] Federally Enforceable Through Title V Permit
31. Each pump in light liquid service shall be monitored monthly for leak detection in accordance with EPA Method 21. Each such pump shall be monitored weekly by visual inspection for indication of liquids dripping from the pump seal. [40 CFR 482-2(a)(1) and 482-2(b)(2)] Federally Enforceable Through Title V Permit
32. Each pump in light liquid service, equipped with a dual mechanical seal system that includes a barrier fluid system, is exempt from the other leak detection monitoring requirements for this permit unit, provided requirements pursuant to 40 CFR 60.482-2(d) are met. The barrier fluid system of such exempt equipment shall be equipped with a sensor system to detect seal system failure, barrier fluid system failure, or both. Each such pump shall be checked weekly for liquid dripping from the seals. Each sensor shall be checked daily or equipped with an audible alarm. Such exempted equipment shall be documented in the OMP. [40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit
33. All compressors associated with this permit unit shall be reciprocating compressors in wet gas service only unless operator demonstrates otherwise. In wet gas service means that a piece of equipment contains or contacts the field gas before the extraction step in the process. [40 CFR 60.482-3(b), 60.633(f), 60.482-3(a), and 60.632(f)] Federally Enforceable Through Title V Permit

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34. Each pressure relief device in gas/vapor service shall be monitored quarterly and within 1 day after each pressure release to detect leaks of 10,000 ppm or greater. [40 CFR 60.633(b)(1) and (2)] Federally Enforceable Through Title V Permit
35. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, so that the open end is sealed at all times, except during operations requiring process fluid flow through the valve or line. [40 CFR 60.482-6(a)] Federally Enforceable Through Title V Permit
36. Each open-ended valve or line equipped with a second valve shall be operated so that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6(b)] Federally Enforceable Through Title V Permit
37. When a double block-and-bleed system is being used, the bleed valve or line may remain open only during operations that require venting the line between the block valves. [40 CFR 60.482-6(c)] Federally Enforceable Through Title V Permit
38. Each valve in gas/vapor service or light liquid service shall be monitored monthly to detect leaks using EPA Method 21. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter. If a leak is subsequently detected, monitoring shall revert to monthly. [40 CFR 60.482-7(a), (b), and (c)] Federally Enforceable Through Title V Permit
39. For a valve in gas/vapor service or light liquid service, first attempts at repair shall include the following where practicable: 1) tightening of bonnet bolts, 2) replacement of bonnet bolts, 3) tightening of packing gland nuts, and 4) injection of lubricant into lubricant packing. [40 CFR 60.482-7(e) and 60.482-8(d)] Federally Enforceable Through Title V Permit
40. Any valve in gas/vapor service or light liquid service that is designated in the equipment log list and OMP as an unsafe-to-monitor valve is exempt from the monthly leak inspection requirements for this permit unit, provided: 1) the owner/operator demonstrates the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence, and 2) a written plan is adhered to that requires monitoring of the valve as frequently as practicable during safe-to-monitor times and at least annually and during shutdown. [40 CFR 60.482-7(g)] Federally Enforceable Through Title V Permit
41. Any valve in gas/vapor service or light liquid service that is designated in the equipment log list and OMP as a difficult-to-monitor (inaccessible) valve is exempt from the monthly leak inspection requirements for this permit unit, provided: 1) the owner/operator demonstrates the valve cannot be monitored without elevating the monitoring personnel more than 15 feet above a support surface, or that it is over 6 feet away from a platform, 2) the process unit within which the valve is located either becomes an affected facility through 40 CFR 60.14 or 60.15 or if the owner/operator designates less than 3.0% of the total number of valves as difficult-to-monitor, and 3) a written plan is adhered to that, requires monitoring of the valve at least annually and during shutdown. [40 CFR 60.482-7(h)] Federally Enforceable Through Title V Permit
42. Pressure relief devices in light liquid service and flanges and other connectors shall be monitored within 5 days for leak detection in accordance with EPA Method 21, if evidence of a potential leak is found by sight, sound, smell, or any other detection method. A leak is detected if an instrument reading of 10,000 ppm or greater is measured. [40 CFR 60.482-8(a) and (b)] Federally Enforceable Through Title V Permit
43. An owner or operator of more than one affected onshore natural gas processing facility subject to NSPS requirements for equipment leaks for VOC, may comply with the record keeping requirements for these facilities in one record keeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(1) and (2)] Federally Enforceable Through Title V Permit
44. When a leak is detected or identified by a Notice to Repair, a weatherproof and readily visible tag shall be attached, bearing the equipment identification number and date which the leak is detected. The tag on a valve may be removed after it has been monitored for 2 successive months and no leak has been detected. The tag of all other equipment may be removed after repair and re-inspection document compliance with the requirements of this permit unit. [40 CFR 60.486(b) and 60.635(b)(1)] Federally Enforceable Through Title V Permit

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45. When a leak is detected, the following information shall be recorded in an inspection log and such log shall be maintained for a period of five years: 1) instrument and operator identification numbers and the equipment identification number, 2) date the leak was detected, dates and repair method of each attempt to repair the leak, and date of successful repair 3) "above 10,000" if the maximum instrument reading after each repair attempt is equal to or greater than 10,000 ppm, 4) "repair delayed" and reason for delay and expected date of successful repair if a leak is not repaired within 15 days of detection, 5) signature of individual whose decision it was that repair could not be effected without a process shutdown, 6) dates of process unit shutdown that occur while the equipment is unrepaired. [40 CFR 60.486(c) and 60.635(2)(I) through (ix)] Federally Enforceable Through Title V Permit
46. A log shall be maintained containing the following information: 1) a list of identification numbers for equipment subject to the requirements of this permit unit and 2) a list of identification numbers for equipment in vacuum service. [40 CFR 60.486(e) and 60.635(b)(2)(x)] Federally Enforceable Through Title V Permit
47. A log shall be maintained containing the following information for valves in gas/vapor service and light liquid service: 1) a list of identification numbers for valves designated "unsafe-to-monitor" and for valves designated "difficult-to-monitor", 2) an explanation for each valve stating why it is so designated, and 3) the schedule for monitoring each such valve. [40 CFR 60.486(f)] Federally Enforceable Through Title V Permit
48. A log shall be maintained containing the following information for pumps equipped with a barrier fluid seal system which includes a seal failure sensor, for which a system failure criteria is required to be established, pursuant to the requirements for this permit unit: 1) the design criterion required by this permit and an explanation and 2) any changes to this criterion and reasons for the changes. [40 CFR 60.486(h)] Federally Enforceable Through Title V Permit
49. Information and data used to demonstrate that a reciprocating compressor is in wet gas service shall be recorded in a log. [40 CFR 60.635(c)] Federally Enforceable Through Title V Permit
50. All logs required for this permit unit and all records of required monitoring data and support information shall be retained by the operator for a minimum of five years after the date of an entry, kept in a readily accessible location, and made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
51. Semiannual reports shall be submitted to the APCO containing the following information: 1) process unit identification, 2) for each month during the reporting period, number of valves, pumps, compressors, and pressure relief devices for which leaks were detected; number of valves, pumps, compressors, and pressure relief devices for which leaks were not repaired within 15 days and a first attempt not made within 5 days of leak detection; the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible 3) dates of process unit shutdowns which occurred within the reporting period, and 4) revisions to items reported in the initial or subsequent semiannual reports. [40 CFR 60.487(a) and (c) and 60.636(c)] Federally Enforceable Through Title V Permit
52. The sulfur content of the natural gas used to fire the heaters and flare shall be tested weekly except that if compliance with the fuel sulfur content limit is demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit, the source must return to weekly testing until eight consecutive weeks show compliance. The sulfur content shall be determined using ASTM method D2784, D1072, D3031, D4084, or D3426. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
53. A trained observer as defined EPA method 22, shall check visible emissions from the flare at least once per year for a period of 15 minutes. If visible emissions are detected at any time during this period, the operator shall take action as needed to eliminate the visible emissions and a trained observer shall recheck the visible emissions the next time the flare is in operation. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observers name and affiliation, date, estimated wind speed and direction, sky condition and the observer's location relative to the source and sun. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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54. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
55. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components subject to the requirements of Rule 4409, but not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
56. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
57. For polished rod stuffing boxes (PRSBs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
58. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409, 5.1.2] Federally Enforceable Through Title V Permit
59. Minor gas leaks from PRSBs detected during any District inspection shall not be counted toward determination of compliance with this rule provided the permittee repairs, replaces, or removes leaking PRSBs from VOC service as soon as practicable but not later than seven calendar days. [District Rule 4409, 5.1.3.1.2] Federally Enforceable Through Title V Permit
60. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409, 5.1.3.2.1 and 5.1.3.2.2] Federally Enforceable Through Title V Permit
61. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409, 5.1.3.2.3] Federally Enforceable Through Title V Permit
62. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409, 5.1.4.1] Federally Enforceable Through Title V Permit
63. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409, 5.1.4.2] Federally Enforceable Through Title V Permit
64. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409, 5.1.4.3] Federally Enforceable Through Title V Permit

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65. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
66. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
67. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
68. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
69. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
70. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
71. When 200 or fewer PRSBs are inspected, a leak is when more than four have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 PRSBs are inspected, a leak is when more than 2.0 % (rounded up to the nearest whole number) of the PRSBs have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
72. When 200 or fewer wells at light crude oil or gas production facilities are inspected, a leak from a pipe is when more than two or more pipes have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 wells at light crude oil or gas production facilities are inspected, a leak from a pipe is when more than 1.0 % (rounded up to the nearest whole number) of the pipes have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
73. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
74. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409, 5.2.1] Federally Enforceable Through Title V Permit
75. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409, 5.2.2] Federally Enforceable Through Title V Permit

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76. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409, 5.2.3] Federally Enforceable Through Title V Permit
77. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409, 5.2.4] Federally Enforceable Through Title V Permit
78. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409, 5.2.5] Federally Enforceable Through Title V Permit
79. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409, 5.2.6] Federally Enforceable Through Title V Permit
80. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409, 5.2.7] Federally Enforceable Through Title V Permit
81. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409, 5.2.8] Federally Enforceable Through Title V Permit
82. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409, 5.2.8.1] Federally Enforceable Through Title V Permit
83. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non-Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409, 5.2.8.2] Federally Enforceable Through Title V Permit
84. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409, 5.2.9 and 5.2.10] Federally Enforceable Through Title V Permit
85. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409, 5.2.11] Federally Enforceable Through Title V Permit
86. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409, 5.2.12] Federally Enforceable Through Title V Permit
87. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409, 5.2.13] Federally Enforceable Through Title V Permit
88. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409, 5.2.14] Federally Enforceable Through Title V Permit

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89. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409, 5.3.1] Federally Enforceable Through Title V Permit
90. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit
91. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit
92. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409, 5.3.5] Federally Enforceable Through Title V Permit
93. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409, 5.3.6] Federally Enforceable Through Title V Permit

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94. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409, 5.3.7] Federally Enforceable Through Title V Permit
95. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409, 5.4.1] Federally Enforceable Through Title V Permit
96. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409, 6.1.2] Federally Enforceable Through Title V Permit
97. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409, 6.1.4] Federally Enforceable Through Title V Permit
98. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification 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 first; 7) The method(s) 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; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409, 6.2.1] Federally Enforceable Through Title V Permit
99. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409, 6.2.2] Federally Enforceable Through Title V Permit

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

100. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409, 6.2.3] Federally Enforceable Through Title V Permit
101. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rule 4409, 6.2.4] Federally Enforceable Through Title V Permit
102. All 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 instructions not more than 30 days prior to its use. [District Rule 4409, 6.3.1] Federally Enforceable Through Title V Permit
103. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409, 6.3.2] Federally Enforceable Through Title V Permit
104. The percent by volume liquid evaporated at 302 °F (150 °C) shall be determined using ASTM D-86. [District Rule 4409, 6.3.3] Federally Enforceable Through Title V Permit
105. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409, 6.3.4] Federally Enforceable Through Title V Permit
106. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409, 6.3.5] Federally Enforceable Through Title V Permit
107. 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 4409, 6.3.6] Federally Enforceable Through Title V Permit
108. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409, 6.3.7] Federally Enforceable Through Title V Permit
109. Annual average benzene emissions shall not exceed 1,980 pounds per year. [40 CFR 63.764(e)(ii), 40 CFR 63.765(a), and 40 CFR 63.762(e)] Federally Enforceable Through Title V Permit
110. The owner/operator shall not shut down equipment required for compliance with 40 CFR 63 subpart HH if the shutdown would contravene requirements based on subpart HH; unless: 1) the equipment is malfunctioning; or 2) the equipment must be shut down to avoid damage due to a startup, shutdown or malfunction of associated equipment. [40 CFR 63.762(b)] Federally Enforceable Through Title V Permit
111. During startups, shutdowns, and malfunctions when the requirements of 40 CFR 63 subpart HH do not apply pursuant to provision of this permit, the owner/operator shall implement measures to prevent or minimize emissions to the maximum extent practical as described in 40 CFR 63.762 (c). [40 C FR 63.762(c)] Federally Enforceable Through Title V Permit
112. Storage vessels with potential for flash emissions shall comply with 40 CFR 63.766. [40 CFR 63.766] 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.

113. Each cover, closed-vent system, and control device installed and operated to control air emissions as required by the provisions of 40 CFR 63 subpart HH shall comply with section 40 CFR 63.771. [40 CFR 63.771] Federally Enforceable Through Title V Permit
114. The owner or operator shall determine actual average benzene emissions using the model GRI-GLYCalc , Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1). [40 CFR 63.772(b)(2)] Federally Enforceable Through Title V Permit
115. Storage vessels with potential for flash emissions shall comply with the inspection and monitoring requirements of 40 CFR 63.773. [40 CFR 63.773] Federally Enforceable Through Title V Permit
116. The owner/operator shall maintain the records of actual average benzene emissions (in terms of benzene emission per year) as required by 40 CFR 63.772(b)(2). [40 CFR 63.774(d)(1)(ii)] Federally Enforceable Through Title V Permit
117. The owner/operator shall maintain all records required by 40 CFR 63.774. Records shall be maintained for a period of 5 years following the date of each occurrence, measurement, maintenance corrective action, report or period. All applicable records shall be maintained in hard copy or computer readable form in a manner such that they can be readily accessed. The most recent 12 months of records shall be maintained on site or shall be accessible from a central location by computer or other means that provides for access within 2 hours. The remaining 4 years of records may be retained offsite. [40 CFR 63.774] Federally Enforceable Through Title V Permit
118. The owner/operator shall notify and provide reports in accordance with 40 CFR 63.775. [40 CFR 63.775] Federally Enforceable Through Title V Permit
119. Compliance with Title V permit conditions for this unit shall be deemed compliance with applicable requirements of 40 CFR 60, Subpart KKK. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-48-2-4

EXPIRATION DATE: 08/31/2013

SECTION: 01 TOWNSHIP: 32S RANGE: 23E

## EQUIPMENT DESCRIPTION:

THREE 14,000 GALLON NATURAL GASOLINE STORAGE TANKS, ONE NATURAL GASOLINE LOADING RACK WITH TWO 25 HP PUMPS, ONE PROPANE/BUTANE LOADOUT RACK WITH ONE 10 HP PUMP, AND ODORANT INJECTION SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Natural gasoline/LPG storage tanks and loading rack shall be equipped with vapor loss collection system as required by Rule 4624 (as amended 12/17/92). [District Rule 4624, 5.0] Federally Enforceable Through Title V Permit
2. Odorant injection system shall include pressurized odorant storage vessel with no vent to the atmosphere (except for emergency pressure relief), odorant injection module with turbine meter, and fugitive components. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Odorant storage tank shall not be filled more than once per day and the operator shall record the number of times the odorant storage tank is filled each day. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. VOC emissions from fugitive components installed in conjunction with the odorant injection system shall be less than 0.5 lb per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All valves and flanges shall be maintained leak-free (as defined in Rule 4624, as amended 12/17/92). [District Rule 4624, 5.4] Federally Enforceable Through Title V Permit
6. Permittee shall maintain with the permit, accurate fugitive component counts for components associated with the odorant injection system and resulting emissions calculated using U.S. EPA publication EPA-450/3-83-007, Tables 3-1 and 3-4. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The loading rack shall be equipped with bottom loading and a vapor collection and control system such that VOC emissions do not exceed 0.08 pounds per 1000 gallons of organic liquid with greatest vapor pressure loaded. [4624, 5.1.1 and Kern County Rule 413] Federally Enforceable Through Title V Permit
8. Construction, reconstruction (as defined in District Rule 4001, amended January 19, 1995), or expansion of any top loading facility shall not be allowed. [District Rule 4624, 5.5] Federally Enforceable Through Title V Permit
9. Loading and vapor collection and control equipment shall be designed, installed, maintained and operated such that there are no leaks or excess organic liquid drainage at disconnections. A leak shall be defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at a distance of one centimeter from the potential source in accordance with EPA Method 21. Excess liquid drainage shall be defined as exceeding 10 mls per average of 3 consecutive disconnects. [District Rule 4624, 5.4 and Kern County Rule 413] 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 the loading of organic liquids, the operator shall perform and record the results of quarterly leak inspections of the loading and vapor collection equipment at each loading arm. Leak inspections shall be conducted using sight, sound, smell and instrument methods to detect leaks. Instrument detection shall be conducted using EPA Method 21 and shall be measured at a distance of one centimeter from the potential source. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: A) Zero air (less than 10 ppm of hydrocarbon in air); and B) Mixture of methane and air at a concentration of about, but less than, 10,000 ppm methane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Corrective steps shall be taken at any time the operator observes excess drainage at disconnect. In addition, the operator shall perform and record the results of monthly drainage inspections at disconnect for each loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Drainage inspections shall be completed before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one (1) minute of collection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Each detected leak shall be repaired within 15 calendar days of detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. The permittee shall maintain an inspection log containing at least the following: A) dates of leak and drainage inspections, B) leak determination method, C) findings, D) corrective action (date each leak or excess drainage condition repaired, reasons for any leak repair interval in excess of 15 days), and E) inspector name and signature. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. All records necessary to determine compliance with the VOC emission limit for this unit shall be maintained for a period of at least 5 years and shall include component counts and recognized emission factors for fugitive emission sources. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Compliance with these permit conditions in the Title V permit shall be deemed compliance with the requirements of Kern County Rule 413. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-22-6

**EXPIRATION DATE:** 08/31/2013

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

600 BHP CUMMINS SERIAL #31134966 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. 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 Rules 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-23-3

**EXPIRATION DATE:** 08/31/2013

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

14,500 GALLON NATURAL GASOLINE STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The tank shall maintain a working pressure at all times sufficient to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623, 4.1.1] Federally Enforceable Through Title V Permit

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Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-23-3 : Nov 2 2009 1:05PM - KEASTMD

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-25-5

**EXPIRATION DATE:** 08/31/2013

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

244 BHP JOHN DEERE MODEL 7539 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. 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 Rules 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-29-4

**EXPIRATION DATE:** 08/31/2013

**EQUIPMENT DESCRIPTION:**

1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

## PERMIT UNIT REQUIREMENTS

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1. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
2. IC engine shall be equipped with controller which readily indicates air/fuel ratio setting within tolerance limits as recommended by the catalyst system supplier. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a non-resettable elapsed time meter or other APCO approved alternate device, method or technique to determine operating time. The time meter or alternative device shall be properly maintained and operated in accordance with manufacturer's instructions. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed any of the following: NO<sub>x</sub> (as NO<sub>2</sub>): 5 ppmvd @ 15% O<sub>2</sub>, CO: 56 ppmvd @ 15% O<sub>2</sub>, VOC: 25 ppmvd @ 15% O<sub>2</sub>, or PM<sub>10</sub>: 0.02 gram/hp hr. [District Rules 2201 and 4702, 5.1] Federally Enforceable Through Title V Permit
5. Natural gas sulfur content shall not exceed 1 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Source tests to show compliance with CO, NO<sub>x</sub>, and VOC emission limits shall be conducted at least once every 12 months, by District-witnessed sample collection by independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The following test methods shall be used: NO<sub>x</sub> - EPA Method 7E or ARB Method 100; CO - EPA Method 10 or ARB Method 100; VOC - EPA Method 25A, EPA Method 25B, or ARB Method 100; stack gas oxygen - EPA Method 3, EPA method 3A, or ARB Method 100. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> at least once every calendar quarter using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. NO<sub>x</sub> emission readings shall be averaged over a 15 consecutive-minute sample reading by either taking a cumulative 15 consecutive-minute sample or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702] Federally Enforceable Through Title V Permit
12. If the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
14. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rule 4702] Federally Enforceable Through Title V Permit
15. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702] Federally Enforceable Through Title V Permit
16. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the fuel being fired in the IC engine shall be determined using ASTM method D 2784, D 1072, D 3031, D 4084, D 3246, D 6228, or grab sample analysis by double GC for H<sub>2</sub>S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested each quarter, but only if the engine is operated in that calendar quarter. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

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

19. The permittee shall monitor and record the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor on a daily basis to assure the emission control system is functioning properly. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. [40 CFR Part 64] Federally Enforceable Through Title V Permit
20. The approved catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor operating range for monitoring daily compliance shall be established from manufacturer's information or by source testing this unit, and shall be stated on this permit. This operating range must be determined during the next source test or within six months, whichever comes first. [40 CFR Part 64] Federally Enforceable Through Title V Permit
21. If the catalyst inlet and outlet temperatures or millivolt reading, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
23. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702] Federally Enforceable Through Title V Permit
27. The permittee shall maintain monthly records of the following information: total hours of operation; type, quantity and sulfur content of fuel(s) used; maintenance and/or modifications performed; emissions monitoring data; compliance source test results; and any other information necessary to demonstrate compliance with District Rule 4702. Records shall be retained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 2201 4702] Federally Enforceable Through Title V Permit
28. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
29. The fuel line shall be physically disconnected from this unit when it is maintained in a dormant status. [District Rule 4702] Federally Enforceable Through Title V Permit
30. Permittee shall notify the District at least seven (7) calendar days prior to removing this unit from dormant status and recommencing operation. [District Rule 4702] Federally Enforceable Through Title V Permit
31. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
32. Upon recommencing operation, permittee shall meet all emissions, testing, monitoring and operational requirements for this unit as set forth on this permit. [District Rule 2080] 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-48-30-4

**EXPIRATION DATE:** 08/31/2013

**EQUIPMENT DESCRIPTION:**

1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

## PERMIT UNIT REQUIREMENTS

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1. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
2. IC engine shall be equipped with controller which readily indicates air/fuel ratio setting within tolerance limits as recommended by the catalyst system supplier. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a non-resettable elapsed time meter or other APCO approved alternate device, method or technique to determine operating time. The time meter or alternative device shall be properly maintained and operated in accordance with manufacturer's instructions. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed any of the following: NO<sub>x</sub> (as NO<sub>2</sub>): 5 ppmvd @ 15% O<sub>2</sub>, CO: 56 ppmvd @ 15% O<sub>2</sub>, VOC: 25 ppmvd @ 15% O<sub>2</sub>, or PM<sub>10</sub>: 0.02 gram/hp hr. [District Rules 2201 and 4702, 5.1] Federally Enforceable Through Title V Permit
5. Natural gas sulfur content shall not exceed 1 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Source tests to show compliance with CO, NO<sub>x</sub>, and VOC emission limits shall be conducted at least once every 12 months, by District-witnessed sample collection by independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The following test methods shall be used: NO<sub>x</sub> - EPA Method 7E or ARB Method 100; CO - EPA Method 10 or ARB Method 100; VOC - EPA Method 25A, EPA Method 25B, or ARB Method 100; stack gas oxygen - EPA Method 3, EPA method 3A, or ARB Method 100. [District Rule 4702] Federally Enforceable Through Title V Permit

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

11. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> at least once every calendar quarter using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. NO<sub>x</sub> emission readings shall be averaged over a 15 consecutive-minute sample reading by either taking a cumulative 15 consecutive-minute sample or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702] Federally Enforceable Through Title V Permit
12. If the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
14. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rule 4702] Federally Enforceable Through Title V Permit
15. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702] Federally Enforceable Through Title V Permit
16. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the fuel being fired in the IC engine shall be determined using ASTM method D 2784, D 1072, D 3031, D 4084, D 3246, D 6228, or grab sample analysis by double GC for H<sub>2</sub>S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested each quarter, but only if the engine is operated in that calendar quarter. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

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

19. The permittee shall monitor and record the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor on a daily basis to assure the emission control system is functioning properly. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. [40 CFR Part 64] Federally Enforceable Through Title V Permit
20. The approved catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor operating range for monitoring daily compliance shall be established from manufacturer's information or by source testing this unit, and shall be stated on this permit. This operating range must be determined during the next source test or within six months, whichever comes first. [40 CFR Part 64] Federally Enforceable Through Title V Permit
21. If the catalyst inlet and outlet temperatures or millivolt reading, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
23. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702] Federally Enforceable Through Title V Permit
27. The permittee shall maintain monthly records of the following information: total hours of operation; type, quantity and sulfur content of fuel(s) used; maintenance and/or modifications performed; emissions monitoring data; compliance source test results; and any other information necessary to demonstrate compliance with District Rule 4702. Records shall be retained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 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

## Final Title V Permit Renewal Evaluation Crimson Resource Management S-48

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**TITLE V PERMIT RENEWAL EVALUATION**  
**Gas Plant**

**Engineer:** Chay Thao  
**Date:** October 30, 2009

**Facility Number:** S-48  
**Facility Name:** Crimson Resource Management  
**Mailing Address:** 5001 California Ave, Suite 206  
Bakersfield, CA 93309

**Contact Name:** Debra Monterroso  
**Phone:** (661) 716-5001

**Responsible Official:** Debra Monterroso  
**Title:** Env. H&S Manager

**Project # :** S-1080780  
**Deemed Complete:** April 9, 2008

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**I. PROPOSAL**

Crimson Resource Management was issued a Title V permit on January 10, 2005. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

NOTE: The existing permit S-48-29-3 has an incorrect condition stating that an application needs to be submitted to modify the Title V permit to reflect its status change from active to dormant. The renewed PTO will not include this condition, since it will be removed from the existing PTO prior to finalizing this Title V renewal.

## II. FACILITY LOCATION

The 1C Gas Plant is located at Section 01, Township 32 South, Range 23 East in Kern County, California.

## III. EQUIPMENT LISTING

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

## IV. GENERAL PERMIT TEMPLATE USAGE

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

## V. SCOPE OF EPA AND PUBLIC REVIEW

The applicant is not requesting any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

## VI. FEDERALLY ENFORCEABLE REQUIREMENTS

### A. Rules Updated

- District Rule 2020, Exemptions  
(amended March 21, 2002 ⇒ amended December 19, 2002)
- District Rule 4101, Visible Emissions  
(amended November 15, 2001 ⇒ amended February 17, 2005)
- District Rule 4623, Storage of Organic Liquids  
(amended December 20, 2001 ⇒ amended May 19, 2005)
- District Rule 4702, Internal Combustion Engines  
(adopted August 21, 2003 ⇒ amended January 18, 2007)
- District Rule 8011, General Requirements  
(adopted November 15, 2001 ⇒ amended August 19, 2004)

- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8031, Bulk Materials  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8041, Carryout and Trackout  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8051, Open Areas  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas  
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- 40 CFR Part 63, Subpart HH, National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities  
(amended December 22, 2008)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners  
(amended June 18, 2008)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction  
(amended June 18, 2008)

## **B. Rules Removed**

- District Rule 4403, Components Serving Light Crude Oil or Gases at Light Crude Oil and Gas Production Facilities and Components at Natural Gas Processing Facilities (amended February 16, 1995) *\*\*This rule expired on April 20, 2006 and has been superceded by District Rule 4409\*\**

## **C. Rules Added**

- District Rule 4409, Components At Light Crude Oil Production Facilities, Natural Gas Production Facilities, And Natural Gas Processing Facilities  
(Adopted April 20, 2005)

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

#### **D. Rules Not Updated**

- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended December 19, 2002)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4601, Architectural Coatings (amended October 31, 2001)
- District Rule 4701, Internal Combustion Engines (amended August 21, 2003)
- 40 CFR 60, Subpart KKK, Standards of Performance for Onshore Natural Gas Processing Plants (amended October 17, 2000)
- 40 CFR 60, Subpart LLL, Standards of Performance for Onshore Natural Gas Processing: SO<sub>2</sub> Emissions (amended October 17, 2000)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended September 18, 2003)

## **VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE**

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits.

The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

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

**A. Rules Not Updated**

- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4102, Nuisance (as amended December 17, 1992).
- District Rule 4624, Transfer of Organic Liquid (amended December 20, 2007)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)

**VIII. PERMIT REQUIREMENTS**

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

**A. District Rule 2020 - Exemptions**

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

**B. District Rule 4101 - Visible Emissions**

The provisions of this rule shall apply to any source operation which emits or may emit air contaminants.

Section 5.0 prohibits the discharge into the atmosphere from any single source of emission whatsoever, any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101.

Condition 22 of permit unit '0-3 ensures compliance.

**C. District Rule 4409 - Components At Light Crude Oil Production Facilities, Natural Gas Production Facilities, And Natural Gas Processing Facilities**

The purpose of this rule is to limit VOC emissions from leaking components at light crude oil production facilities, natural gas production facilities, and natural gas processing facilities.

a. S-48-1-12: Gas Plant

Section 5.1.1 requires that an operator shall not use any component that leaks in excess of the applicable leak standards of this rule, or that is found to be in violation of the provisions specified in Section 5.1.3. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this rule. Conditions 54 through 57 of permit '1-12 assure compliance.

Section 5.1.2 requires that each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. Condition 58 of permit '1-12 assures compliance.

Section 5.1.3.1.1 specifies that the operator shall be in violation of this rule if any District inspection demonstrates that one or more of the conditions in Section 5.1.4 exist at the facility.

Section 5.1.3.1.2 goes on to specify that notwithstanding the provision of Section 5.1.3.1.1, minor gas leaks from polished rod stuffing boxes (PRSB) found during any District inspection shall not be counted toward

determination of compliance with this rule provided the operator repairs, replaces, or removes leaking PRSB from VOC service as soon as practicable but not later than the time frame specified in this rule. Condition 59 of permit '-1-12 assures compliance.

Section 5.1.3.2.1 specifies that except for annual operator inspections described in Section 5.1.3.2.3, any operator inspection that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall not constitute a violation of this rule if the leaking components are repaired as soon as practicable but not later than the time frame specified in this rule. Such components shall not be counted towards determination of compliance with the provisions of Section 5.1.4. Condition 60 of permit '-1-12 assures compliance.

Section 5.1.3.2.2 specifies that leaking components detected during operator inspection pursuant Section 5.1.3.2.1 that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Section 5.1.4. Condition 60 of permit '-1-12 assures compliance.

Section 5.1.3.2.3 specifies that any operator inspection conducted annually for a component type (including operator annual inspections pursuant to Section 5.2.6, 5.2.7, 5.2.8, or 5.2.9) that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall constitute a violation of this rule regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this rule. Condition 61 of permit '-1-12 assures compliance.

Section 5.1.4 specifies that for the purpose of this rule, a component shall be considered leaking if one or more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 exist at the facility.

Section 5.1.4.1 specifies that a component shall be considered leaking if an open-ended line or a valve located at the end of the line that is not sealed with a blind flange, plug, cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended lines. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. Condition 62 of permit '-1-12 assures compliance.



Section 5.1.4.2 specifies that a component shall be considered leaking with a major liquid leak (defined as a visible mist or a continuous flow of liquid that is not seal lubricant). Condition 63 of permit '-1-12 assures compliance.

Section 5.1.4.3 specifies that a component shall be considered to have a gas leak if emissions are greater than 50,000 ppmv as methane. Condition 64 of permit '-1-12 assures compliance.

Section 5.1.4.4 specifies that a component shall be considered leaking if a component has a leak described in Sections 5.1.4.4.1 through 5.1.4.4.3 and numbering in excess of the maximum allowable number or percent specified in Table 2. Conditions 65 through 73 of permit '-1-12 assure compliance.

Section 5.2.1 requires that for manned light oil production facilities, gas production facilities, and gas processing facilities, an operator shall audio-visually (by hearing and by sight) inspect for leaks all accessible operating pumps, compressors, pressure relief valves (should say PRDs instead of PRVs) in service at least once every 24 hours except when operators do not report to the facility for that given 24 hours. Condition 74 of permit '-1-12 assures compliance.

Section 5.2.2 requires that for unmanned light oil production facilities, gas production facilities, or gas processing facilities, the operator shall audio-visually inspect for leaks all accessible operating pumps, compressors, PRDs in service at least once per calendar week. Condition 75 of permit '-1-12 assures compliance.

Section 5.2.3 requires that any audio-visual inspection of all accessible operating pumps, compressors, and PRDs performed by an operator that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected using the test method specified in Section 6.3.1 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 3 of this rule. Condition 76 of permit '-1-12 assures compliance.

Section 5.2.4 requires that notwithstanding the requirements of Sections 5.2.1, 5.2.2, and 5.2.3, the operator shall inspect all components using the test method specified in Section 6.3.1 at least once every calendar quarter, except for inaccessible components, unsafe-to-monitor components, or pipes. Inaccessible components and unsafe-to-monitor components shall be inspected in accordance with the provisions of Sections 5.2.6 and 5.2.7, respectively. Pipes shall be inspected in accordance with the provisions of Section 5.2.8. Condition 77 of permit '-1-12 assures compliance.

Section 5.2.5 requires that the operator shall inspect, immediately after placing into service, all new, replaced, or repaired fittings, flanges, and threaded connections using the test method specified in Section 6.3.1. Condition 78 of permit '-1-12 assures compliance.

Section 5.2.6 requires that the operator shall inspect all inaccessible components at least once every 12 months using the test method specified in Section 6.3.1. Condition 79 of permit '-1-12 assures compliance.

Section 5.2.7 requires that the operator shall inspect all unsafe-to-monitor components during each turnaround using the test method specified in Section 6.3.1. Condition 80 of permit '-1-12 assures compliance.

Section 5.2.8 requires that the operator shall visually inspect all pipes for leaks at least once every 12 months. Condition 81 of permit '-1-12 assures compliance.

Section 5.2.8.1 requires that 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 using the test method specified in Section 6.3.1 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 3 of this rule. Condition 82 of permit '-1-12 assures compliance.

Section 5.2.8.2 requires that the operator may conduct the annual pipe inspection required by Section 5.2.8 in conjunction with the annual pipe inspection required by the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities). Records of annual pipe inspection required by DOGGR or SPCC may be used to document the inspection required by Section 5.2.8. The operator shall maintain the records of such inspections at the facilities. The records shall be made available to the APCO, ARB, and US EPA upon request. Condition 83 of permit '-1-12 assures compliance.

Section 5.2.9 requires that notwithstanding the requirement of Section 5.2.4, the operator may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually for a component type, or an operator who is already on an annual inspection frequency on or before (rule adoption date) may apply for a written approval from the APCO to continue

conducting annual inspections for a component type, provided the operator meets all the criteria specified in Sections 5.2.9.1 through 5.2.9.3. This approval shall apply to accessible component types specifically designated by the APCO, except pumps, compressors, and PRDs which shall continue to be inspected on a quarterly basis. Sections 5.2.9.1 through 5.2.9.3 specify the following requirements:

- The operator was not in violation of any provision of Sections 5.1 during five consecutive quarterly inspections for that component type.
- The operator did not receive a Notice of Violation from the APCO during the previous 12 months violating any provisions of this rule for that component type.
- The written request shall include pertinent documentation to demonstrate that the operator has successfully met the requirements of Sections 5.2.9.1 and 5.2.9.2.
- The annual inspection frequency approved by the APCO pursuant to Section 5.2.9 shall revert to quarterly inspection frequency for a component type if either one of the following occurs:
  - The operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2, or 5.3 exists for that component type; or
  - The APCO issued a Notice of Violation for violating any of the provisions of this rule during the annual inspection period for that component type.

Condition 84 of permit '-1-12 assures compliance.

Section 5.2.10 requires that the annual inspection frequency approved by the APCO pursuant to Section 5.2.9 shall revert to quarterly inspection frequency for a component type if either one of the following occurs:

- The operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2, or 5.3 exists for that component type; or
- The APCO issued a Notice of Violation for violating any of the provisions of this rule during the annual inspection period for that component type.

Condition 84 of permit '-1-12 assures compliance.

Section 5.2.11 requires that when the inspection frequency changes from annual to quarterly inspections pursuant to Section 5.2.10, the operator shall notify the APCO in writing within five (5) calendar days after changing the inspection frequency. The written notification shall include the reason(s) and

date of change to quarterly inspection frequency. Condition 85 of permit '-1-12 assures compliance.

Section 5.2.12 requires that the operator shall initially inspect a PRD that releases to the atmosphere using the test method specified in Section 6.3.1 as soon as practicable but not later than 24 hours after the time of the release. The operator shall reinspect the PRD using the test method specified in Section 6.3.1 not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the release and is leak-free (is leak free should not be in this statement). If the PRD is found to be leaking at either inspection, the PRD leak shall be treated as if the leak was found during quarterly operator inspections. Condition 86 of permit '-1-12 assures compliance.

Section 5.2.13 requires that except for PRDs subject to the requirements of Section 5.2.12, a component shall be inspected not later than 15 calendar days after repairing the leak or replacing the component using the test method specified in Section 6.3.1. Condition 87 of permit '-1-12 assures compliance.

Section 5.2.14 requires that a District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. Any attempt by an operator to count such District inspections as part of the mandatory operator's inspections is considered a willful circumvention of the rule and is a violation of this rule. Condition 88 of permit '-1-12 assures compliance.

Section 5.3.1 requires that upon detection of a leaking component, the operator shall affix to that component a weatherproof readily visible tag. The tag shall meet the following requirements:

- The tag shall remain affixed to the component until all the conditions specified in Sections 5.3.2.1 through 5.3.2.3 have been met.
- The leaking component has been repaired or replaced; and
- The component has been re-inspected using the test method in Section 6.3.1; and
- The component is found to be in compliance with the requirements of this rule.

The tag shall include the following information:

- Date and time of leak detection.

- Date and time of leak measurement.
- For gaseous leaks, indicate the leak concentration in ppmv.
- For liquid leaks, indicate whether it is a major liquid leak or a minor liquid leak.
- For essential components, unsafe-to-monitor components, or critical components, so indicate on the tag.

Condition 89 of permit '-1-12 assures compliance.

Section 5.3.4 requires that an operator shall minimize all component leaks immediately to the extent possible, but not later than one (1) hour after detection of leaks in order to stop or reduce leakage to the atmosphere. Conditions 90 and 91 of permit '-1-12 assure compliance.

Section 5.3.5 requires that if the leak has been minimized but the leak still exceeds the applicable leak standards of this rule, an operator shall comply with at least one of the requirement of Sections 5.3.5.3, 5.3.5.4 or 5.3.5.5 as soon as practicable but not later than the time period specified in Table 3.

- 1) The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the repair period specified in Table 3.
- 2) The start of the repair period shall be the time of the initial leak detection.
- 3) Repair or replace the leaking component; or
- 4) Vent the leaking component to a closed vent system as defined in Section 3.0.
- 5) Remove the leaking component from operation.

Conditions 90 of permit '-1-12 assures compliance.

Section 5.3.5 further states that for each calendar quarter, the operator may be allowed to extend the repair period as specified in Table 3, for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest integer where required. Condition 92 of permit '-1-12 assures compliance.

Section 5.3.6 requires that if the leaking component is an essential component or a critical component and which cannot be immediately shut down for repairs, the operator shall: Minimize the leak within one hour after detection of leaks; and If the leak has been minimized, but the leak still exceeds the applicable leak standards of this rule, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround, but in no case later than one year

from the date of the original leak detection, whichever comes earlier. Condition 93 of permit '-1-12 assures compliance.

Section 5.3.7 requires that for any component that has incurred five repair actions for major gas leaks or major liquid leaks, or combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall comply with at least one of the requirements specified in Sections 5.3.7.1, 5.3.7.2, 5.3.7.3, or 5.3.7.4 by the applicable deadlines specified in Sections 5.3.7.5 and 5.3.7.6. If the original leaking component is replaced with a new like-in-kind component before incurring five repair actions for major leaks within 12-consecutive months, the repair count shall start over for the new component. An entire compressor or pump need not be replaced provided the compressor part(s) or pump part(s) that have incurred five repair actions as described in Section 5.3.7 are brought into compliance with at least one of the requirements of Sections 5.3.7.1 through 5.3.7.6. Condition 94 of permit '-1-12 assures compliance.

Section 5.4.1 requires that all major components and critical components shall be physically identified clearly and visibly for inspection, repair, and record keeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the APCO that enables an operator or the APCO to locate each individual component. The operator shall replace tags or labels that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. Condition 95 of permit '-1-12 assures compliance.

Section 6.1.1 requires that by October 20, 2005, an operator whose existing components are either subject to this rule or whose existing components are exempt pursuant to Section 4.2 of this rule on or before April 20, 2005 shall submit an Operator Management Plan (OMP) for approval by the APCO. This compliance issue has already been addressed, and therefore no condition will need to be listed on the permit to ensure compliance.

Section 6.1.2 requires that the operator shall keep a copy of the APCO-approved Operator Management Plan at the facility and make it available to the APCO, ARB, and US EPA upon request. Condition 96 of permit '-1-12 assures compliance.

Section 6.1.3 requires that the operator shall describe in the Operator Management Plan all components subject to this rule and all components that are exempt pursuant to Section 4.2 of this rule. The Plan shall contain a description of the procedures that the operator will use to comply with the requirements of this rule. This compliance issue has already been

addressed, and therefore no condition will need to be listed on the permit to ensure compliance.

Section 6.1.4 requires that by January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to an existing Operator Management Plan. Condition 97 of permit '1-12 assures compliance.

Section 6.2.1 requires that the operator shall maintain an inspection log containing, at a minimum, all of the following information:

- 1) Total number of components inspected, and total number and percentage of leaking components found by component types.
- 2) Location, type, name or description of each leaking component and description of any unit where the leaking component is found.
- 3) Date of leak detection and method of leak detection.
- 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak.
- 5) Date of repair, replacement, or removal from operation of leaking components.
- 6) Identification and location of essential 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.
- 7) 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.
- 8) After the component is repaired or is replaced, the date of re-inspection and the leak concentration in ppmv.
- 9) Inspector's name, business mailing address, and business telephone number.
- 10) The facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log.

Condition 98 of permit '1-12 assures compliance.

Section 6.2.2 requires that records of leaks detected during quarterly or annual operator inspection, and each subsequent repair and re-inspection, shall be submitted to the APCO, ARB, and US EPA upon request. Condition 99 of permit '1-12 assures compliance.

Section 6.2.3 requires that 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. Condition 100 of permit '-1-12 assures compliance.

Section 6.2.4 requires that copies of all records required by Section 6.2 of this rule shall be retained for a minimum of five (5) years after the date of an entry, and the records shall be made available to the APCO, ARB, and US EPA upon request. Condition 101 of permit '-1-12 assures compliance.

Equivalent test methods other than specified in Sections 6.3.1 through 6.3.8 may be used provided such test methods have received prior approval from the EPA, ARB, and APCO.

Section 6.3.1 requires that measurements of gaseous leak concentrations shall be conducted according to US EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in US EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. Condition 102 of permit '-1-12 assures compliance.

Section 6.3.2 requires that 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 for liquids. Condition 103 of permit '-1-12 assures compliance.

Section 6.3.3 requires that the percent by volume liquid evaporated at 150 °C shall be determined using ASTM Method D 86-82. Condition 104 of permit '-1-12 assures compliance.

Section 6.3.4 requires that the TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix A. Appendix A is an excerpt from the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and



Guidelines Regulation for AB 2588”, dated August 1989. Condition 105 of permit ‘-1-12 assures compliance.

Section 6.3.5 requires that the API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287-92 (2000) e1 “Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method) or ASTM 1298-85 (Standard Practice for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 “Standard Practices for Manual Sampling of Petroleum and Petroleum Products”. Condition 106 of permit ‘-1-12 assures compliance.

Section 6.3.6 requires that the control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by US EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case US EPA Method 25a may be used. 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 those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. Condition 107 of permit ‘-1-12 assures compliance.

Section 6.3.7 requires that halogenated exempt compounds shall be analyzed by US EPA Method 18 or ARB Method 422 “Determination of Volatile Organic Compounds in Emission from Stationary Sources”. Condition 108 of permit ‘-1-12 assures compliance.

#### **D. District Rule 4623 - Storage Of Organic Liquids**

This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

Per section 4.1.1, the provisions of this rule do not apply to pressure vessels. A pressure vessel is defined as “a tank, reservoir, or container that is capable of maintaining working pressures sufficient to prevent organic liquid loss or VOC loss to the atmosphere at all times.”

##### **a. S-48-23-3: Natural Gasoline Storage Tank**

Condition 1 of permit unit ‘-23-3 ensures compliance with this rule.

**E. District Rule 4702 – Internal Combustion Engines**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower.

a. S-48-22-6 and '-25-5: Emergency Diesel Fired IC Engines

Section 4.2 exempts emergency standby engines and engines operating no more than 200 hours per calendar year from the requirements of this rule, except for sections 5.7 and 6.2.3. Condition 4 of permit units '-22-6 and '-25-5 ensure compliance.

Section 5.7 requires that engines are operated and maintained in accordance to the manufacturer, operational characteristics are monitored, and a nonresettable time meter is installed. Conditions 1, 2, and 5 of permit units '-22-6 and '-25-5 ensure compliance.

Section 6.2.3 requires maintenance of annual operating records for five years, and to include the following: total hours of operation, type of fuel used, purpose for operating engine, hours of non-emergency and emergency operation, and other supporting documentation to demonstrate exemption. Conditions 6 and 8 of permit units '-22-6 and '-25-5 ensure compliance.

b. S-48-29-4 and '-30-4: Natural Gas Fired IC Engines

Section 5.1 specifies NO<sub>x</sub>, CO, and VOC limits. The emissions for these engines are well below the stated limits. Condition 4 of permit units '-29-4 and '-30-4 ensures compliance.

Section 5.6.1 requires that a spark-ignited non-emergency IC engine with a rated brake horsepower of 1,000 hp or greater install continuous emissions monitoring or an alternative monitoring system approved by the APCO to measure NO<sub>x</sub> and CO emissions. Both engines are using an APCO approved alternative monitoring system. Conditions 11 through 13 of permit units '-29-4 and '-30-4 ensure compliance.

Section 5.6.2 applies to engines not subject to 5.6.1. This requirement is not applicable.

Section 5.6.3 requires the alternative monitoring system to be approved by the APCO. The existing alternative monitoring is District approved, satisfying this requirement.

Section 5.6.4 applies only to engines using CEMS, and is therefore not applicable.

Section 5.6.5 requires that data gathering and retrieval systems for the alternative monitoring system is approved by the APCO. The existing alternative monitoring is District approved, satisfying this requirement.

Section 5.6.6 requires the installation and operation of a nonresettable elapsed operating time meter or an approved alternative. Condition 3 of permit units '-29-4 and '-30-4 ensure compliance.

Section 5.6.7 requires the implementation of the Inspection and Monitoring (I&M) plan. This has already been satisfied.

Section 5.6.8 requires that data collected through the I&M plan are in a form approved by the APCO. This has already been satisfied.

Section 5.6.9 specifies how NO<sub>x</sub> measurements should be taken with a portable analyzer. Conditions 11 through 13 of permits '-29-4 and '-30-4 ensure compliance.

Section 5.6.10 requires documentation to ensure that operating within ranges of specified emissions-related performance indicators or operational characteristics provides a reasonable assurance of compliance with applicable emission limits. Compliance is assured with conditions 11 through 13 of permits '-29-4 and '-30-4, which provides direct emission measurements from the exhaust stack.

Section 5.6.11 applies only to Permit Exempt Equipment Registrations and is therefore not applicable.

Section 5.7 is not applicable. It only applies to compression-ignited engines, spark-ignited engines at agricultural operations, and engines subject to Section 4.2.

Section 5.8 is not applicable. It only applies to Permit Exempt Equipment Registrations.

Section 6.1 requires the initial submittal of an Emissions Control Plan to bring the engines into compliance with Rule 4702. This has already been satisfied.

Section 6.2 requires monthly record keeping of the following for at least five years: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance with this rule. Condition 27 of permits '-29-4 and '-30-4 ensures compliance.

Section 6.3 requires source testing at least once every 24 months at conditions representative of normal operations or conditions with the following parameters:

- Arithmetic average of three 30-consecutive minute test runs.
- Failed if two of the three runs are above the applicable limit
- VOC reported as methane
- VOC, NOx, and CO reported in ppmv, correct to 15% O<sub>2</sub>.

Conditions 14 and 15 of permits '-29-4 and '-30-4 ensures compliance.

Section 6.4 specifies source test methods. Compliance is assured by condition 10 of permits '-29-4 and '-30-4.

Section 6.5 requires submittal of an Inspection and Monitoring (I&M) plan to demonstrate compliance with the rule and also requires that the District be notified of any changes in operation no later than 14 days after the change for approval. The initial I&M plan has already been satisfied through District inspection. In addition, condition 18 of permits '-29-4 and '-30-4 ensures compliance with the notification requirement.

Section 7 specifies dates engines are required to come into compliance with Rule 4702. Since all engines at this facility are already in compliance with this rule, this section is not applicable. In addition, this section also clarifies that engines subject to this rule are no longer subject to Rule 4701; therefore, references to Rule 4701 have been removed from permits '-29-4 and '-30-4.

Section 8 contains provisions for Alternative Emission Control Plans (AECP). This section is not applicable, since AECPs are not being used.

Section 9 contains exhaust control system certification requirements. Since these engines are not using exhaust control system certifications to demonstrate compliance with this rule, this section is not applicable.

**F. District Rule 8011 - General Requirements**

The purpose of Regulation VIII (Fugitive PM10 Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM10) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The provisions of this rule are applicable to specified outdoor fugitive dust sources.

Conditions 29 through 34 of permit '0-3 ensure compliance with the requirements of Rule 8011.

**G. District Rule 8021 - Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities**

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.

This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit VDE to 20% opacity.

Compliance with the provisions of this rule is ensured by condition 29 of permit '0-3.

**H. District Rule 8031 - Bulk Materials**

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.

This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit VDE to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011.

Compliance with the provisions of this rule is ensured by condition 30 of permit '-0-3.

**I. District Rule 8041 - Carryout and Trackout**

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout.

This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that an owner/operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

Compliance with the provisions of this rule is ensured by condition 31 of permit '-0-3.

**J. District Rule 8051 - Open Areas**

The purpose of this rule is to limit fugitive dust emissions from open areas.

This rule applies to any open area having 3.0 acres or more of disturbed surface area that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner/operator shall implement one or a combination of control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Compliance with the provisions of this rule is ensured by condition 32 of permit '-0-3.

**K. District Rule 8061 - Paved and Unpaved Roads**

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.

This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

Compliance with the provisions of this rule is ensured by condition 33 of permit '-0-3.

**L. District Rule 8071 - Unpaved Vehicle/Equipment Traffic Area**

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas by implementing control measures and design criteria.

This rule applies to any unpaved vehicle/equipment traffic area of 1.0 acre or larger.

Compliance with the provisions of this rule is ensured by condition 34 of permit '-0-3.

**M. 40 CFR Part 63, Subpart HH, National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities**

These requirements provide national emission standards for hazardous air pollutants from oil and natural gas production facilities. This facility is currently subject to this rule, and continued applicability is assumed.

a. S-48-1-12: Gas Plant

Section 63.762 requires that emissions be minimized to the extent possible during startups, shutdowns, and malfunctions. It also requires that control equipment not be shutdown unless it is malfunctioning or needs to be shutdown to avoid damage due to startups, shutdowns, or malfunctions. Conditions 110 and 111 of permit '-1-12 ensure compliance.

Section 63.762 provides exemption from preparing a startup, shutdown, and malfunction plan if benzene emissions are less than 0.9 megagrams/year (equivalent to 1,980 lb/yr). Condition 109 of permit '-1-12 ensures compliance.

Section 63.764(e) exempts units with benzene emissions less than 0.9 megagrams/year from the requirements of sections 63.764(c)(1), (c)(3), and (d). Condition 109 of permit '-1-12 ensures compliance.

Section 63.764(c)(2) requires control, monitoring, record keeping, and reporting in accordance with subsequent sections for storage vessels. This will be addressed below.

Section 63.764(f) requires a Title V permit, which has been satisfied with this permit.

Section 63.765 only applies to glycol dehydration units with actual average benzene emissions equal to or greater than 0.9 megagrams/year. This section is not applicable. Compliance is assured by condition 109 of permit '-1-12.

Section 63.766 requires storage vessels with potential for flash emissions to be equipped with covers, in accordance with 40 CFR 63.771, and to operate with no detectable emissions. Condition 112 of permit '-1-12 ensures compliance.

Section 63.769 provides equipment leak standards and exempts equipment already subject to 40 CFR 60 subpart KKK. Since this facility is already subject to subpart KKK, this section is not applicable.

Section 63.771 provides control equipment requirements. This section applies to each cover, closed-vent system, and control device installed and operated by the owner or operator to control air emissions as required by the provisions of this subpart. Condition 113 of permit '-1-12 ensures compliance.

Section 63.772 provides test methods, compliance procedures, and compliance demonstrations requirements. Condition 114 of permit '-1-12 ensures compliance.

Section 63.773 provides inspection and monitoring requirements for control devices required in section 63.765 and 63.766. Since this facility is exempt from 63.765, only 63.766 applies. Condition 115 of permit '-1-12 ensures compliance.

Section 63.774 provides record keeping requirements. Conditions 116 and 117 of permit '-1-12 ensure compliance.



Section 63.776 provides reporting requirements. Condition 118 of permit '1-12 ensures compliance.

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

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

§6585(b) states, "A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site."

§6585(c) states, "An area source of HAP emissions is a source that is not a major source."

The facility is not a major source as defined in §6585(b). Therefore, this facility is an area source of HAP emissions.

§6590(a) states, "An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand."

§6590(a)(1) defines the criteria for an existing stationary RICE as follows:

- (i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.
- (ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

Based on the permitting modification records at the District, the engines at this facility have not commenced construction or reconstruction on or after June 12, 2006. Therefore, the engines at this facility meet the definition of an existing stationary RICE as defined in §6590(a)(1)(iii).

§6590(b)(3) states that the following engines do not have to meet the requirements of this subpart and of subpart A of this part:

- stationary RICE which is an existing spark ignition 4 stroke rich burn (4SRB) stationary RICE located at an area source,
- existing spark ignition 4SRB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source, an existing spark ignition 2 stroke lean burn (2SLB) stationary RICE,
- existing spark ignition 4 stroke lean burn (4SLB) stationary RICE,
- existing compression ignition (CI) stationary RICE,
- existing emergency stationary RICE,
- existing limited use stationary RICE, or
- existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis

The engines under permits '-22 and '-25 are existing emergency stationary RICE, and the engines under permits '-29 and '-30 are existing spark ignition 4-stroke rich burn RICE located at an area source. Therefore, the engines not have to meet the requirements of this subpart and of subpart A of this part. No further discussion is required.

#### **O. 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners**

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC). These requirements are addressed in condition 28 of permit '-0-3.

**P. 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction**

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC). These requirements are addressed in condition 27 of permit '0-3.

**IX. PERMIT SHIELD**

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

**A. Requirements Addressed by Model General Permit Templates**

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

**B. Requirements not Addressed by Model General Permit Templates**

The applicant is not proposing any new permit shields.

**C. Obsolete Permit Shields From Existing Permit Requirements**

a. S-48-0-3: Facility wide

The following rules have been updated and therefore have removed from condition 42 of the facility wide permit as follows:

- Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4404 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8024 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Y

b. S-48-1-12: Gas Plant

District Rule 4403 has been replaced. Therefore, the permit shield is no longer valid and has been removed from this permit.

c. S-48-2-4: Gasoline Storage and Loading

District Rule 4624 has been updated. Therefore, the permit shield is no longer valid and has been removed from this permit.

**X. PERMIT CONDITIONS**

See Attachment A - Final Renewed Title V Operating Permit.

**XI. ATTACHMENTS**

- A. Final Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List

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# ATTACHMENT A

Final Renewed Title V Operating Permit

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**San Joaquin Valley**

**AIR POLLUTION CONTROL DISTRICT**

# Permit to Operate

**FACILITY:** S-48

**EXPIRATION DATE:** 08/31/2008<sup>2003</sup>

**LEGAL OWNER OR OPERATOR:**

CRIMSON RESOURCE MANAGEMENT

**MAILING ADDRESS:**

5001 CALIFORNIA AVENUE, SUITE 206

ENV. H & S ENGINEER

BAKERSFIELD, CA 93309

**FACILITY LOCATION:**

1-C GAS PLANT

TAFT, CA

**FACILITY DESCRIPTION:**

GAS PLANT

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-48-0-3

EXPIRATION DATE: 08/31/2008

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; Kern County Rule 111] 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] 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 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-0-3 - Nov 2 2009 10:33AM -- THAOC

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101] 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 the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) 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 (10/31/01). [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 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 82, Subpart B. [40 CFR 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 or Rule 8011. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 or Rule 8011. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 or Rule 8011. [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 or Rule 8011. [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 or Rule 8011. [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. 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 or Rule 8011. [District Rules 8011 and Rule 8071] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
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

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

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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin October, 21 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
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Kern) and Rule 111 (Kern). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-1-12

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

3.2 MMBTU/HR GAS PLANT INCLUDING: COMPRESSION SYSTEM, DRIP CONDITIONING SYSTEM, GLYCOL SYSTEM, SEPARATION SYSTEM, FRACTIONATION SYSTEM, HEATING SYSTEM, REFRIGERATION SYSTEM, COOLING WATER SYSTEM, MOLECULAR SIEVE SYSTEM, CO2 SCRUBBER SYSTEM, AND SMOKELESS EMERGENCY FLARE

## PERMIT UNIT REQUIREMENTS

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1. Glycol reboiler shall only vent to vapor control system, including air cooled heat exchanger and gas/liquid separator vessel. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Glycol reboiler vapor control system shall vent to any of the following compressor #'s K-12 (permit # S-48-9), K-14, K-15, and K-16 (permit # S-48-10). [District NSR Rule] Federally Enforceable Through Title V Permit
3. All pressure relief valves shall not vent to atmosphere except during breakdown conditions as described in Rule 1100, section 3.0. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Emissions rates from heater (H-1) shall not exceed the following: PM10: 0.025 lb/hr, SOx (as SO2): 0.004 lb/hr, NOx (as NO2): 0.48 lb/hr, VOC: 0.025 lb/hr, CO: 0.096 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Fugitive VOC emission rate shall not exceed 67.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Fugitive VOC emission rate from MEA CO2 scrubber shall be less than 0.5 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
7. H2S content of natural gas processed by the MEA CO2 scrubber shall not exceed 7.41 ppmv. [District NSR Rule and 4201] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999) Oil and Gas Production Screening Value Range emission factors. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
10. The H2S content of the natural gas processed by the MEA CO2 scrubber shall be tested weekly except that if compliance with the gas H2S content limit is demonstrated for 6 consecutive weeks, then the testing frequency shall be monthly. If there is a change in composition of processed gas or if a test shows noncompliance with the sulfur content limit, the source must return to weekly testing until eight consecutive weeks show compliance. The H2S content shall be determined using grab sample analysis by double GC performed in the laboratory. Samples shall be drawn prior to the inlet of the CO2 scrubber. [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.

11. Each owner or operator of a facility with a design capacity less than 2 LT/D of H<sub>2</sub>S in the acid gas (expressed as sulfur) shall keep, for the life of the facility, an analysis demonstrating that the facility's design capacity is less than 2 LT/D of H<sub>2</sub>S expressed as sulfur. [40 CFR 60.647(c)] Federally Enforceable Through Title V Permit
12. Gas plant shall include electrified field booster compressor (formerly PTO S-2199-22-0) located at Section 31, T12N, R23W. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Valves, flanges, seals on pumps and compressors and heat exchangers shall be maintained to prevent the emission of volatile organic compounds. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Hot oil heater shall be fired on natural gas only. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Total sulfur content of natural gas combusted shall not exceed 0.30 grain/100 scf. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Operation of flare for other than maintenance and testing shall be limited to unforeseen electrical power outages or emergencies (as defined below) that results in the inability to dispose of the vapors in devices approved for that purpose. Emergency is defined as an unforeseeable failure or malfunction of operating equipment that 1) is not due to neglect or disregard of air pollution laws or rules; 2) is not intentional or the result of negligence; 3) is not due to improper maintenance; 4) does not constitute a nuisance; and 5) results in the use of equipment exempted from offsets by Rule 2201 to prevent or ameliorate an unsafe situation. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The owner or operator shall notify the District of any emergency use of the flare as soon as reasonably possible, but no later than one hour after initiation of its use unless the owner or operator demonstrates to the District's satisfaction that a longer notification period was necessary [District Rule 1070] Federally Enforceable Through Title V Permit
18. The permittee shall report to the District in writing within ten days following the emergency use of the flare. The report shall include 1) a statement that the failure or malfunction has been corrected, the date corrected, and proof of correction; 2) a specific statement of the reason or cause for the occurrence; 3) a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and 4) an estimate of the emissions caused by the emergency use. [District Rule 1070] Federally Enforceable Through Title V Permit
19. Operation of flare shall not exceed 200 hours per year for purposes of flare maintenance and testing. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Smokeless flare combustion air assist fan shall be capable of supplying 100% of stoichiometric combustion air requirements. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Produced gas shall be piped only to fuel gas system or sales gas pipeline. [District NSR Rule] Federally Enforceable Through Title V Permit
22. A leak is defined 1) a reading as methane in excess of 10,000 ppm above background when measured in accordance with EPA Method 21, or 2) liquids dripping so that there is any visible leakage from the seal, including spraying, misting, clouding, and ice formation. [40 CFR 60.481 and 482-2(b)(1)] Federally Enforceable Through Title V Permit
23. An instrument used for leak detection shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: A) zero air (less than 10 ppm of hydrocarbon in air) and B) mixture of methane and air at a concentration of about, but less than 10,000 ppm methane. [40 CFR 60.485(b)] Federally Enforceable Through Title V Permit
24. Each piece of equipment or component subject to requirements of this permit unit shall be presumed to be in VOC service or in wet gas service unless operator demonstrates otherwise and shall be tested for compliance with leak emission limits. [40 CFR 60.485(d) and 60.632(f)] Federally Enforceable Through Title V Permit

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

25. All components, excluding flanges and threaded connections, handling VOCs shall be inspected at least quarterly to detect any leaks. If less than two (2) percent of any component type subject to the prohibitions of this permit, except for pressure relief valves, pumps, and compressors, are found to leak during each of five (5) consecutive quarterly inspections, the inspection frequency for that component type may be changed from quarterly to annual. If any annual inspection shows that two (2) percent or more of all of a specific component type subject to the prohibitions of this permit are leaking, then quarterly inspections of that component type shall be resumed. All flanges and threaded connections handling VOCs shall be inspected at least annually to detect any leaks. [40 CFR 60.483-1(b)(1), 60.483-2(b)(3), 60.483-2(b)(4)] Federally Enforceable Through Title V Permit
26. The operator shall notify the APCO if they have elected to comply with the allowable percentage of leaking valves provisions of this permit 90 days before implementing this alternative. [40 CFR 60.483-1(b)(1) and (d), and 60.487(d)] Federally Enforceable Through Title V Permit
27. A performance test shall be conducted initially upon designation for allowable percentage of leaking valves, annually, and at other times requested by the APCO. The performance test shall be conducted as follows: 1) all valves in gas/vapor and light liquid service shall be monitored within 1 week using EPA Method 21 and 2) the leak percentage shall be determined by dividing the number of leaking valves detected and valves for which repair has been delayed by the number of valves in gas/vapor and light liquid service in this permit unit, and 3) a record must be kept of the percent of valves found leaking during each leak detection period. [40 CFR 60.483-1(b)(2) and (c) and 60.483-2(b)(5) and (6)] Federally Enforceable Through Title V Permit
28. When any component leak is detected or identified by a Notice to Repair, it shall be repaired to a leak-free condition and reinspected no later than 15 calendar days after detection. A first attempt at repair shall be made no later than 5 calendar days after leak detection. [District Rules 2520, 9.1; 40 CFR 60.482-2(c)(1) and (c)(2), 60.482-3(g), 60.633(b)(3), 60.482-7(d), and 60.482-8(c)] Federally Enforceable Through Title V Permit
29. Delay of leak repair will be allowed if the repair is technologically infeasible without a process unit shutdown and the leaking component is an essential part of a critical process identified in the operator management plan and the leak has been minimized within 15 calendar days. If the valve leak which has been minimized still exceeds the limit in this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but no later than one year from the date of the original leak detection. If the pump leak which has been minimized still exceeds the limit in this permit requires the use of a dual mechanical seal system that includes a barrier fluid system, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but no later than six months from the date of the original leak detection. Delay of repair is allowed for equipment which is isolated from the process and which does not remain in VOC service. [40 CFR 60.482-2(c)(1) & 60.482-9(a)&(b)] Federally Enforceable Through Title V Permit
30. Equipment that is in vacuum service is exempt from the control and monitoring requirements and work practice standards of this permit unit, provided it is identified as such in the equipment log required by this permit. [40 CFR 60.482-1(d)] Federally Enforceable Through Title V Permit
31. Each pump in light liquid service shall be monitored monthly for leak detection in accordance with EPA Method 21. Each such pump shall be monitored weekly by visual inspection for indication of liquids dripping from the pump seal. [40 CFR 482-2(a)(1) and 482-2(b)(2)] Federally Enforceable Through Title V Permit
32. Each pump in light liquid service, equipped with a dual mechanical seal system that includes a barrier fluid system, is exempt from the other leak detection monitoring requirements for this permit unit, provided requirements pursuant to 40 CFR 60.482-2(d) are met. The barrier fluid system of such exempt equipment shall be equipped with a sensor system to detect seal system failure, barrier fluid system failure, or both. Each such pump shall be checked weekly for liquid dripping from the seals. Each sensor shall be checked daily or equipped with an audible alarm. Such exempted equipment shall be documented in the OMP. [40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit
33. All compressors associated with this permit unit shall be reciprocating compressors in wet gas service only unless operator demonstrates otherwise. In wet gas service means that a piece of equipment contains or contacts the field gas before the extraction step in the process. [40 CFR 60.482-3(b), 60.633(f), 60.482-3(a), and 60.632(f)] 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.

34. Each pressure relief device in gas/vapor service shall be monitored quarterly and within 1 day after each pressure release to detect leaks of 10,000 ppm or greater. [40 CFR 60.633(b)(1) and (2)] Federally Enforceable Through Title V Permit
35. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, so that the open end is sealed at all times, except during operations requiring process fluid flow through the valve or line. [40 CFR 60.482-6(a)] Federally Enforceable Through Title V Permit
36. Each open-ended valve or line equipped with a second valve shall be operated so that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6(b)] Federally Enforceable Through Title V Permit
37. When a double block-and-bleed system is being used, the bleed valve or line may remain open only during operations that require venting the line between the block valves. [40 CFR 60.482-6(c)] Federally Enforceable Through Title V Permit
38. Each valve in gas/vapor service or light liquid service shall be monitored monthly to detect leaks using EPA Method 21. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter. If a leak is subsequently detected, monitoring shall revert to monthly. [40 CFR 60.482-7(a), (b), and (c)] Federally Enforceable Through Title V Permit
39. For a valve in gas/vapor service or light liquid service, first attempts at repair shall include the following where practicable: 1) tightening of bonnet bolts, 2) replacement of bonnet bolts, 3) tightening of packing gland nuts, and 4) injection of lubricant into lubricant packing. [40 CFR 60.482-7(e) and 60.482-8(d)] Federally Enforceable Through Title V Permit
40. Any valve in gas/vapor service or light liquid service that is designated in the equipment log list and OMP as an unsafe-to-monitor valve is exempt from the monthly leak inspection requirements for this permit unit, provided: 1) the owner/operator demonstrates the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence, and 2) a written plan is adhered to that requires monitoring of the valve as frequently as practicable during safe-to-monitor times and at least annually and during shutdown. [40 CFR 60.482-7(g)] Federally Enforceable Through Title V Permit
41. Any valve in gas/vapor service or light liquid service that is designated in the equipment log list and OMP as a difficult-to-monitor (inaccessible) valve is exempt from the monthly leak inspection requirements for this permit unit, provided: 1) the owner/operator demonstrates the valve cannot be monitored without elevating the monitoring personnel more than 15 feet above a support surface, or that it is over 6 feet away from a platform, 2) the process unit within which the valve is located either becomes an affected facility through 40 CFR 60.14 or 60.15 or if the owner/operator designates less than 3.0% of the total number of valves as difficult-to-monitor, and 3) a written plan is adhered to that, requires monitoring of the valve at least annually and during shutdown. [40 CFR 60.482-7(h)] Federally Enforceable Through Title V Permit
42. Pressure relief devices in light liquid service and flanges and other connectors shall be monitored within 5 days for leak detection in accordance with EPA Method 21, if evidence of a potential leak is found by sight, sound, smell, or any other detection method. A leak is detected if an instrument reading of 10,000 ppm or greater is measured. [40 CFR 60.482-8(a) and (b)] Federally Enforceable Through Title V Permit
43. An owner or operator of more than one affected onshore natural gas processing facility subject to NSPS requirements for equipment leaks for VOC, may comply with the record keeping requirements for these facilities in one record keeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(1) and (2)] Federally Enforceable Through Title V Permit
44. When a leak is detected or identified by a Notice to Repair, a weatherproof and readily visible tag shall be attached, bearing the equipment identification number and date which the leak is detected. The tag on a valve may be removed after it has been monitored for 2 successive months and no leak has been detected. The tag of all other equipment may be removed after repair and re-inspection document compliance with the requirements of this permit unit. [40 CFR 60.486(b) and 60.635(b)(1)] Federally Enforceable Through Title V Permit

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45. When a leak is detected, the following information shall be recorded in an inspection log and such log shall be maintained for a period of five years: 1) instrument and operator identification numbers and the equipment identification number, 2) date the leak was detected, dates and repair method of each attempt to repair the leak, and date of successful repair 3) "above 10,000" if the maximum instrument reading after each repair attempt is equal to or greater than 10,000 ppm, 4) "repair delayed" and reason for delay and expected date of successful repair if a leak is not repaired within 15 days of detection, 5) signature of individual whose decision it was that repair could not be effected without a process shutdown, 6) dates of process unit shutdown that occur while the equipment is unrepaired. [40 CFR 60.486(c) and 60.635(2)(I) through (ix)] Federally Enforceable Through Title V Permit
46. A log shall be maintained containing the following information: 1) a list of identification numbers for equipment subject to the requirements of this permit unit and 2) a list of identification numbers for equipment in vacuum service. [40 CFR 60.486(e) and 60.635(b)(2)(x)] Federally Enforceable Through Title V Permit
47. A log shall be maintained containing the following information for valves in gas/vapor service and light liquid service: 1) a list of identification numbers for valves designated "unsafe-to-monitor" and for valves designated "difficult-to-monitor", 2) an explanation for each valve stating why it is so designated, and 3) the schedule for monitoring each such valve. [40 CFR 60.486(f)] Federally Enforceable Through Title V Permit
48. A log shall be maintained containing the following information for pumps equipped with a barrier fluid seal system which includes a seal failure sensor, for which a system failure criteria is required to be established, pursuant to the requirements for this permit unit: 1) the design criterion required by this permit and an explanation and 2) any changes to this criterion and reasons for the changes. [40 CFR 60.486(h)] Federally Enforceable Through Title V Permit
49. Information and data used to demonstrate that a reciprocating compressor is in wet gas service shall be recorded in a log. [40 CFR 60.635(c)] Federally Enforceable Through Title V Permit
50. All logs required for this permit unit and all records of required monitoring data and support information shall be retained by the operator for a minimum of five years after the date of an entry, kept in a readily accessible location, and made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
51. Semiannual reports shall be submitted to the APCO containing the following information: 1) process unit identification, 2) for each month during the reporting period, number of valves, pumps, compressors, and pressure relief devices for which leaks were detected; number of valves, pumps, compressors, and pressure relief devices for which leaks were not repaired within 15 days and a first attempt not made within 5 days of leak detection; the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible 3) dates of process unit shutdowns which occurred within the reporting period, and 4) revisions to items reported in the initial or subsequent semiannual reports. [40 CFR 60.487(a) and (c) and 60.636(c)] Federally Enforceable Through Title V Permit
52. The sulfur content of the natural gas used to fire the heaters and flare shall be tested weekly except that if compliance with the fuel sulfur content limit is demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit, the source must return to weekly testing until eight consecutive weeks show compliance. The sulfur content shall be determined using ASTM method D2784, D1072, D3031, D4084, or D3426. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
53. A trained observer as defined EPA method 22, shall check visible emissions from the flare at least once per year for a period of 15 minutes. If visible emissions are detected at any time during this period, the operator shall take action as needed to eliminate the visible emissions and a trained observer shall recheck the visible emissions the next time the flare is in operation. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observers name and affiliation, date, estimated wind speed and direction, sky condition and the observer's location relative to the source and sun. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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54. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
55. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components subject to the requirements of Rule 4409, but not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
56. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
57. For polished rod stuffing boxes (PRSBs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit
58. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409, 5.1.2] Federally Enforceable Through Title V Permit
59. Minor gas leaks from PRSBs detected during any District inspection shall not be counted toward determination of compliance with this rule provided the permittee repairs, replaces, or removes leaking PRSBs from VOC service as soon as practicable but not later than seven calendar days. [District Rule 4409, 5.1.3.1.2] Federally Enforceable Through Title V Permit
60. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409, 5.1.3.2.1 and 5.1.3.2.2] Federally Enforceable Through Title V Permit
61. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409, 5.1.3.2.3] Federally Enforceable Through Title V Permit
62. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409, 5.1.4.1] Federally Enforceable Through Title V Permit
63. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409, 5.1.4.2] Federally Enforceable Through Title V Permit
64. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409, 5.1.4.3] Federally Enforceable Through Title V Permit

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65. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
66. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
67. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
68. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
69. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
70. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
71. When 200 or fewer PRSBs are inspected, a leak is when more than four have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 PRSBs are inspected, a leak is when more than 2.0 % (rounded up to the nearest whole number) of the PRSBs have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
72. When 200 or fewer wells at light crude oil or gas production facilities are inspected, a leak from a pipe is when more than two or more pipes have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 wells at light crude oil or gas production facilities are inspected, a leak from a pipe is when more than 1.0 % (rounded up to the nearest whole number) of the pipes have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
73. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
74. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409, 5.2.1] Federally Enforceable Through Title V Permit
75. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409, 5.2.2] Federally Enforceable Through Title V Permit

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76. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409, 5.2.3] Federally Enforceable Through Title V Permit
77. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409, 5.2.4] Federally Enforceable Through Title V Permit
78. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409, 5.2.5] Federally Enforceable Through Title V Permit
79. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409, 5.2.6] Federally Enforceable Through Title V Permit
80. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409, 5.2.7] Federally Enforceable Through Title V Permit
81. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409, 5.2.8] Federally Enforceable Through Title V Permit
82. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409, 5.2.8.1] Federally Enforceable Through Title V Permit
83. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non-Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409, 5.2.8.2] Federally Enforceable Through Title V Permit
84. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409, 5.2.9 and 5.2.10] Federally Enforceable Through Title V Permit
85. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409, 5.2.11] Federally Enforceable Through Title V Permit
86. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409, 5.2.12] Federally Enforceable Through Title V Permit
87. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409, 5.2.13] Federally Enforceable Through Title V Permit
88. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409, 5.2.14] Federally Enforceable Through Title V Permit

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89. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409, 5.3.1] Federally Enforceable Through Title V Permit
90. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit
91. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit
92. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409, 5.3.5] Federally Enforceable Through Title V Permit
93. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409, 5.3.6] Federally Enforceable Through Title V Permit

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94. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409, 5.3.7] Federally Enforceable Through Title V Permit
95. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409, 5.4.1] Federally Enforceable Through Title V Permit
96. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409, 6.1.2] Federally Enforceable Through Title V Permit
97. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409, 6.1.4] Federally Enforceable Through Title V Permit
98. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification 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 first; 7) The method(s) 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; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409, 6.2.1] Federally Enforceable Through Title V Permit
99. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409, 6.2.2] Federally Enforceable Through Title V Permit

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100. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409, 6.2.3] Federally Enforceable Through Title V Permit
101. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rule 4409, 6.2.4] Federally Enforceable Through Title V Permit
102. All 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 instructions not more than 30 days prior to its use. [District Rule 4409, 6.3.1] Federally Enforceable Through Title V Permit
103. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409, 6.3.2] Federally Enforceable Through Title V Permit
104. The percent by volume liquid evaporated at 302 °F (150 °C) shall be determined using ASTM D-86. [District Rule 4409, 6.3.3] Federally Enforceable Through Title V Permit
105. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409, 6.3.4] Federally Enforceable Through Title V Permit
106. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409, 6.3.5] Federally Enforceable Through Title V Permit
107. 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 4409, 6.3.6] Federally Enforceable Through Title V Permit
108. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409, 6.3.7] Federally Enforceable Through Title V Permit
109. Annual average benzene emissions shall not exceed 1,980 pounds per year. [40 CFR 63.764(e)(ii), 40 CFR 63.765(a), and 40 CFR 63.762(e)] Federally Enforceable Through Title V Permit
110. The owner/operator shall not shut down equipment required for compliance with 40 CFR 63 subpart HH if the shutdown would contravene requirements based on subpart HH; unless: 1) the equipment is malfunctioning; or 2) the equipment must be shut down to avoid damage due to a startup, shutdown or malfunction of associated equipment. [40 CFR 63.762(b)] Federally Enforceable Through Title V Permit
111. During startups, shutdowns, and malfunctions when the requirements of 40 CFR 63 subpart HH do not apply pursuant to provision of this permit, the owner/operator shall implement measures to prevent or minimize emissions to the maximum extent practical as described in 40 CFR 63.762 (c). [40 C FR 63.762(c)] Federally Enforceable Through Title V Permit
112. Storage vessels with potential for flash emissions shall comply with 40 CFR 63.766. [40 CFR 63.766] 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.

113. Each cover, closed-vent system, and control device installed and operated to control air emissions as required by the provisions of 40 CFR 63 subpart HH shall comply with section 40 CFR 63.771. [40 CFR 63.771] Federally Enforceable Through Title V Permit
114. The owner or operator shall determine actual average benzene emissions using the model GRI-GLYCalc , Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1). [40 CFR 63.772(b)(2)] Federally Enforceable Through Title V Permit
115. Storage vessels with potential for flash emissions shall comply with the inspection and monitoring requirements of 40 CFR 63.773. [40 CFR 63.773] Federally Enforceable Through Title V Permit
116. The owner/operator shall maintain the records of actual average benzene emissions (in terms of benzene emission per year) as required by 40 CFR 63.772(b)(2). [40 CFR 63.774(d)(1)(ii)] Federally Enforceable Through Title V Permit
117. The owner/operator shall maintain all records required by 40 CFR 63.774. Records shall be maintained for a period of 5 years following the date of each occurrence, measurement, maintenance corrective action, report or period. All applicable records shall be maintained in hard copy or computer readable form in a manner such that they can be readily accessed. The most recent 12 months of records shall be maintained on site or shall be accessible from a central location by computer or other means that provides for access within 2 hours. The remaining 4 years of records may be retained offsite. [40 CFR 63.774] Federally Enforceable Through Title V Permit
118. The owner/operator shall notify and provide reports in accordance with 40 CFR 63.775. [40 CFR 63.775] Federally Enforceable Through Title V Permit
119. Compliance with Title V permit conditions for this unit shall be deemed compliance with applicable requirements of 40 CFR 60, Subpart KKK. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-48-2-4

EXPIRATION DATE: 08/31/2008

SECTION: 01 TOWNSHIP: 32S RANGE: 23E

## EQUIPMENT DESCRIPTION:

THREE 14,000 GALLON NATURAL GASOLINE STORAGE TANKS, ONE NATURAL GASOLINE LOADING RACK WITH TWO 25 HP PUMPS, ONE PROPANE/BUTANE LOADOUT RACK WITH ONE 10 HP PUMP, AND ODORANT INJECTION SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Natural gasoline/LPG storage tanks and loading rack shall be equipped with vapor loss collection system as required by Rule 4624 (as amended 12/17/92). [District Rule 4624, 5.0] Federally Enforceable Through Title V Permit
2. Odorant injection system shall include pressurized odorant storage vessel with no vent to the atmosphere (except for emergency pressure relief), odorant injection module with turbine meter, and fugitive components. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Odorant storage tank shall not be filled more than once per day and the operator shall record the number of times the odorant storage tank is filled each day. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. VOC emissions from fugitive components installed in conjunction with the odorant injection system shall be less than 0.5 lb per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All valves and flanges shall be maintained leak-free (as defined in Rule 4624, as amended 12/17/92). [District Rule 4624, 5.4] Federally Enforceable Through Title V Permit
6. Permittee shall maintain with the permit, accurate fugitive component counts for components associated with the odorant injection system and resulting emissions calculated using U.S. EPA publication EPA-450/3-83-007, Tables 3-1 and 3-4. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The loading rack shall be equipped with bottom loading and a vapor collection and control system such that VOC emissions do not exceed 0.08 pounds per 1000 gallons of organic liquid with greatest vapor pressure loaded. [4624, 5.1.1 and Kern County Rule 413] Federally Enforceable Through Title V Permit
8. Construction, reconstruction (as defined in District Rule 4001, amended January 19, 1995), or expansion of any top loading facility shall not be allowed. [District Rule 4624, 5.5] Federally Enforceable Through Title V Permit
9. Loading and vapor collection and control equipment shall be designed, installed, maintained and operated such that there are no leaks or excess organic liquid drainage at disconnections. A leak shall be defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at a distance of one centimeter from the potential source in accordance with EPA Method 21. Excess liquid drainage shall be defined as exceeding 10 mls per average of 3 consecutive disconnects. [District Rule 4624, 5.4 and Kern County Rule 413] 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 the loading of organic liquids, the operator shall perform and record the results of quarterly leak inspections of the loading and vapor collection equipment at each loading arm. Leak inspections shall be conducted using sight, sound, smell and instrument methods to detect leaks. Instrument detection shall be conducted using EPA Method 21 and shall be measured at a distance of one centimeter from the potential source. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: A) Zero air (less than 10 ppm of hydrocarbon in air); and B) Mixture of methane and air at a concentration of about, but less than, 10,000 ppm methane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Corrective steps shall be taken at any time the operator observes excess drainage at disconnect. In addition, the operator shall perform and record the results of monthly drainage inspections at disconnect for each loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Drainage inspections shall be completed before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one (1) minute of collection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Each detected leak shall be repaired within 15 calendar days of detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. The permittee shall maintain an inspection log containing at least the following: A) dates of leak and drainage inspections, B) leak determination method, C) findings, D) corrective action (date each leak or excess drainage condition repaired, reasons for any leak repair interval in excess of 15 days), and E) inspector name and signature. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. All records necessary to determine compliance with the VOC emission limit for this unit shall be maintained for a period of at least 5 years and shall include component counts and recognized emission factors for fugitive emission sources. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Compliance with these permit conditions in the Title V permit shall be deemed compliance with the requirements of Kern County Rule 413. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-22-6

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

600 BHP CUMMINS SERIAL #31134966 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. 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 Rules 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-22-6 - Nov 2 2009 10:33AM - THAOC

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-23-3

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

14,500 GALLON NATURAL GASOLINE STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The tank shall maintain a working pressure at all times sufficient to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623, 4.1.1] Federally Enforceable Through Title V Permit

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-23-3: Nov 2 2009 10:33AM -- THAOC

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-25-5

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

244 BHP JOHN DEERE MODEL 7539 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. 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 Rules 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-48-29-4

EXPIRATION DATE: 08/31/2008

## EQUIPMENT DESCRIPTION:

1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

## PERMIT UNIT REQUIREMENTS

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1. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
2. IC engine shall be equipped with controller which readily indicates air/fuel ratio setting within tolerance limits as recommended by the catalyst system supplier. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a non-resettable elapsed time meter or other APCO approved alternate device, method or technique to determine operating time. The time meter or alternative device shall be properly maintained and operated in accordance with manufacturer's instructions. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed any of the following: NO<sub>x</sub> (as NO<sub>2</sub>): 5 ppmvd @ 15% O<sub>2</sub>, CO: 56 ppmvd @ 15% O<sub>2</sub>, VOC: 25 ppmvd @ 15% O<sub>2</sub>, or PM<sub>10</sub>: 0.02 gram/hp hr. [District Rules 2201 and 4702, 5.1] Federally Enforceable Through Title V Permit
5. Natural gas sulfur content shall not exceed 1 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Source tests to show compliance with CO, NO<sub>x</sub>, and VOC emission limits shall be conducted at least once every 12 months, by District-witnessed sample collection by independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The following test methods shall be used: NO<sub>x</sub> - EPA Method 7E or ARB Method 100; CO - EPA Method 10 or ARB Method 100; VOC - EPA Method 25A, EPA Method 25B, or ARB Method 100; stack gas oxygen - EPA Method 3, EPA method 3A, or ARB Method 100. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> at least once every calendar quarter using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. NO<sub>x</sub> emission readings shall be averaged over a 15 consecutive-minute sample reading by either taking a cumulative 15 consecutive-minute sample or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702] Federally Enforceable Through Title V Permit
12. If the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
14. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rule 4702] Federally Enforceable Through Title V Permit
15. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702] Federally Enforceable Through Title V Permit
16. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the fuel being fired in the IC engine shall be determined using ASTM method D 2784, D 1072, D 3031, D 4084, D 3246, D 6228, or grab sample analysis by double GC for H<sub>2</sub>S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested each quarter, but only if the engine is operated in that calendar quarter. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

19. The permittee shall monitor and record the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor on a daily basis to assure the emission control system is functioning properly. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. [40 CFR Part 64] Federally Enforceable Through Title V Permit
20. The approved catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor operating range for monitoring daily compliance shall be established from manufacturer's information or by source testing this unit, and shall be stated on this permit. This operating range must be determined during the next source test or within six months, whichever comes first. [40 CFR Part 64] Federally Enforceable Through Title V Permit
21. If the catalyst inlet and outlet temperatures or millivolt reading, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
23. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702] Federally Enforceable Through Title V Permit
27. The permittee shall maintain monthly records of the following information: total hours of operation; type, quantity and sulfur content of fuel(s) used; maintenance and/or modifications performed; emissions monitoring data; compliance source test results; and any other information necessary to demonstrate compliance with District Rule 4702. Records shall be retained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 2201 4702] Federally Enforceable Through Title V Permit
28. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
29. The fuel line shall be physically disconnected from this unit when it is maintained in a dormant status. [District Rule 4702] Federally Enforceable Through Title V Permit
30. Permittee shall notify the District at least seven (7) calendar days prior to removing this unit from dormant status and recommencing operation. [District Rule 4702] Federally Enforceable Through Title V Permit
31. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
32. Upon recommencing operation, permittee shall meet all emissions, testing, monitoring and operational requirements for this unit as set forth on this permit. [District Rule 2080] 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-48-30-4

EXPIRATION DATE: 08/31/2008

## EQUIPMENT DESCRIPTION:

1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

## PERMIT UNIT REQUIREMENTS

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1. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
2. IC engine shall be equipped with controller which readily indicates air/fuel ratio setting within tolerance limits as recommended by the catalyst system supplier. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a non-resettable elapsed time meter or other APCO approved alternate device, method or technique to determine operating time. The time meter or alternative device shall be properly maintained and operated in accordance with manufacturer's instructions. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed any of the following: NO<sub>x</sub> (as NO<sub>2</sub>): 5 ppmvd @ 15% O<sub>2</sub>, CO: 56 ppmvd @ 15% O<sub>2</sub>, VOC: 25 ppmvd @ 15% O<sub>2</sub>, or PM<sub>10</sub>: 0.02 gram/hp hr. [District Rules 2201 and 4702, 5.1] Federally Enforceable Through Title V Permit
5. Natural gas sulfur content shall not exceed 1 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Source tests to show compliance with CO, NO<sub>x</sub>, and VOC emission limits shall be conducted at least once every 12 months, by District-witnessed sample collection by independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The following test methods shall be used: NO<sub>x</sub> - EPA Method 7E or ARB Method 100; CO - EPA Method 10 or ARB Method 100; VOC - EPA Method 25A, EPA Method 25B, or ARB Method 100; stack gas oxygen - EPA Method 3, EPA method 3A, or ARB Method 100. [District Rule 4702] Federally Enforceable Through Title V Permit

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

11. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> at least once every calendar quarter using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. NO<sub>x</sub> emission readings shall be averaged over a 15 consecutive-minute sample reading by either taking a cumulative 15 consecutive-minute sample or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702] Federally Enforceable Through Title V Permit
12. If the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
14. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rule 4702] Federally Enforceable Through Title V Permit
15. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702] Federally Enforceable Through Title V Permit
16. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the fuel being fired in the IC engine shall be determined using ASTM method D 2784, D 1072, D 3031, D 4084, D 3246, D 6228, or grab sample analysis by double GC for H<sub>2</sub>S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested each quarter, but only if the engine is operated in that calendar quarter. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

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



19. The permittee shall monitor and record the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor on a daily basis to assure the emission control system is functioning properly. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. [40 CFR Part 64] Federally Enforceable Through Title V Permit
20. The approved catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor operating range for monitoring daily compliance shall be established from manufacturer's information or by source testing this unit, and shall be stated on this permit. This operating range must be determined during the next source test or within six months, whichever comes first. [40 CFR Part 64] Federally Enforceable Through Title V Permit
21. If the catalyst inlet and outlet temperatures or millivolt reading, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
23. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702] Federally Enforceable Through Title V Permit
27. The permittee shall maintain monthly records of the following information: total hours of operation; type, quantity and sulfur content of fuel(s) used; maintenance and/or modifications performed; emissions monitoring data; compliance source test results; and any other information necessary to demonstrate compliance with District Rule 4702. Records shall be retained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Previous Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-48-0-2

EXPIRATION DATE: 08/31/2008

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-0-2: Aug 11 2009 7:51AM - THAOC

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) 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 (10/31/01). [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 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 82, Subpart B. [40 CFR 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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (11/15/01) or Rule 8011 (11/15/01). [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. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin October, 21 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
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-1-10

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

## **EQUIPMENT DESCRIPTION:**

3.2 MMBTU/HR GAS PLANT INCLUDING: COMPRESSION SYSTEM, DRIP CONDITIONING SYSTEM, GLYCOL SYSTEM, SEPARATION SYSTEM, FRACTIONATION SYSTEM, HEATING SYSTEM, REFRIGERATION SYSTEM, COOLING WATER SYSTEM, MOLECULAR SIEVE SYSTEM, CO<sub>2</sub> SCRUBBER SYSTEM, AND SMOKELESS EMERGENCY FLARE

## **PERMIT UNIT REQUIREMENTS**

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1. Glycol reboiler shall only vent to vapor control system, including air cooled heat exchanger and gas/liquid separator vessel. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Glycol reboiler vapor control system shall vent to any of the following compressor #'s K-12 (permit # S-48-9), K-14, K-15, and K-16 (permit # S-48-10). [District NSR Rule] Federally Enforceable Through Title V Permit
3. All pressure relief valves shall not vent to atmosphere except during breakdown conditions as described in Rule 1100, section 3.0. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Emissions rates from heater (H-1) shall not exceed the following: PM<sub>10</sub>: 0.025 lb/hr, SO<sub>x</sub> (as SO<sub>2</sub>): 0.004 lb/hr, NO<sub>x</sub> (as NO<sub>2</sub>): 0.48 lb/hr, VOC: 0.025 lb/hr, CO: 0.096 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Fugitive VOC emission rate shall not exceed 67.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Fugitive VOC emission rate from MEA CO<sub>2</sub> scrubber shall be less than 0.5 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
7. H<sub>2</sub>S content of natural gas processed by the MEA CO<sub>2</sub> scrubber shall not exceed 7.41 ppmv. [District NSR Rule and 4201] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999) Oil and Gas Production Screening Value Range emission factors. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
10. The H<sub>2</sub>S content of the natural gas processed by the MEA CO<sub>2</sub> scrubber shall be tested weekly except that if compliance with the gas H<sub>2</sub>S content limit is demonstrated for 6 consecutive weeks, then the testing frequency shall be monthly. If there is a change in composition of processed gas or if a test shows noncompliance with the sulfur content limit, the source must return to weekly testing until eight consecutive weeks show compliance. The H<sub>2</sub>S content shall be determined using grab sample analysis by double GC performed in the laboratory. Samples shall be drawn prior to the inlet of the CO<sub>2</sub> scrubber. [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.

11. Each owner or operator of a facility with a design capacity less than 2 LT/D of H<sub>2</sub>S in the acid gas (expressed as sulfur) shall keep, for the life of the facility, an analysis demonstrating that the facility's design capacity is less than 2 LT/D of H<sub>2</sub>S expressed as sulfur. [40 CFR 60.647(c)] Federally Enforceable Through Title V Permit
12. Gas plant shall include electrified field booster compressor (formerly PTO S-2199-22-0) located at Section 31, T12N, R23W. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Valves, flanges, seals on pumps and compressors and heat exchangers shall be maintained to prevent the emission of volatile organic compounds. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Hot oil heater shall be fired on natural gas only. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Total sulfur content of natural gas combusted shall not exceed 0.30 grain/100 scf. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Operation of flare for other than maintenance and testing shall be limited to unforeseen electrical power outages or emergencies (as defined below) that results in the inability to dispose of the vapors in devices approved for that purpose. Emergency is defined as an unforeseeable failure or malfunction of operating equipment that 1) is not due to neglect or disregard of air pollution laws or rules; 2) is not intentional or the result of negligence; 3) is not due to improper maintenance; 4) does not constitute a nuisance; and 5) results in the use of equipment exempted from offsets by Rule 2201 to prevent or ameliorate an unsafe situation. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The owner or operator shall notify the District of any emergency use of the flare as soon as reasonably possible, but no later than one hour after initiation of its use unless the owner or operator demonstrates to the District's satisfaction that a longer notification period was necessary [District Rule 1070] Federally Enforceable Through Title V Permit
18. The permittee shall report to the District in writing within ten days following the emergency use of the flare. The report shall include 1) a statement that the failure or malfunction has been corrected, the date corrected, and proof of correction; 2) a specific statement of the reason or cause for the occurrence; 3) a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and 4) an estimate of the emissions caused by the emergency use. [District Rule 1070] Federally Enforceable Through Title V Permit
19. Operation of flare shall not exceed 200 hours per year for purposes of flare maintenance and testing. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Smokeless flare combustion air assist fan shall be capable of supplying 100% of stoichiometric combustion air requirements. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Produced gas shall be piped only to fuel gas system or sales gas pipeline. [District NSR Rule] Federally Enforceable Through Title V Permit
22. A leak is defined 1) a reading as methane in excess of 10,000 ppm above background when measured in accordance with EPA Method 21, or 2) liquids dripping so that there is any visible leakage from the seal, including spraying, misting, clouding, and ice formation. [District Rule 4403, 3.3.1 and 40 CFR 60.481 and 482-2(b)(1)] Federally Enforceable Through Title V Permit
23. An instrument used for leak detection shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: A) zero air (less than 10 ppm of hydrocarbon in air) and B) mixture of methane and air at a concentration of about, but less than 10,000 ppm methane. [District Rule 4403, 3.3.1 and 40 CFR 60.485(b)] Federally Enforceable Through Title V Permit
24. Each piece of equipment or component subject to requirements of this permit unit shall be presumed to be in VOC service or in wet gas service unless operator demonstrates otherwise and shall be tested for compliance with leak emission limits. [40 CFR 60.485(d) and 60.632(f)] Federally Enforceable Through Title V Permit
25. Leak detection shall be performed in accordance with EPA Method 21. [District Rule 4403, 6.3.4] Federally Enforceable Through Title V Permit
26. Each hatch shall be closed at all times except during sampling or attended maintenance operations. [District Rule 4403, 5.2.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



27. All components, excluding flanges and threaded connections, handling VOCs shall be inspected at least quarterly to detect any leaks. If less than two (2) percent of any component type subject to the prohibitions of this permit, except for pressure relief valves, pumps, and compressors, are found to leak during each of five (5) consecutive quarterly inspections, the inspection frequency for that component type may be changed from quarterly to annual. If any annual inspection shows that two (2) percent or more of all of a specific component type subject to the prohibitions of this permit are leaking, then quarterly inspections of that component type shall be resumed. All flanges and threaded connections handling VOCs shall be inspected at least annually to detect any leaks. [District Rule 4403, 5.2.3 and 40 CFR 60.483-1(b)(1), 60.483-2(b)(3), 60.483-2(b)(4)] Federally Enforceable Through Title V Permit
28. The operator shall notify the APCO if they have elected to comply with the allowable percentage of leaking valves provisions of this permit 90 days before implementing this alternative. [40 CFR 60.483-1(b)(1) and (d), and 60.487(d)] Federally Enforceable Through Title V Permit
29. A performance test shall be conducted initially upon designation for allowable percentage of leaking valves, annually, and at other times requested by the APCO. The performance test shall be conducted as follows: 1) all valves in gas/vapor and light liquid service shall be monitored within 1 week using EPA Method 21 and 2) the leak percentage shall be determined by dividing the number of leaking valves detected and valves for which repair has been delayed by the number of valves in gas/vapor and light liquid service in this permit unit, and 3) a record must be kept of the percent of valves found leaking during each leak detection period. [40 CFR 60.483-1(b)(2) and (c) and 60.483-2(b)(5) and (6)] Federally Enforceable Through Title V Permit
30. The number of leaks of a component type shall not exceed two (2) percent of the total number of components of that type that were inspected and that are subject to the requirements of this permit. For inspections conducted by District personnel to determine compliance with this requirement, the number of components inspected shall constitute a statistically representative sample for each component type. [District Rule 4403, 5.2.10] Federally Enforceable Through Title V Permit
31. When any component leak is detected or identified by a Notice to Repair, it shall be repaired to a leak-free condition and reinspected no later than 15 calendar days after detection. A first attempt at repair shall be made no later than 5 calendar days after leak detection. [District Rules 2520, 9.1 and 4403, 5.3.1, 5.3.2, and 5.2.9; 40 CFR 60.482-2(c)(1) and (c)(2), 60.482-3(g), 60.6 33(b)(3), 60.482-7(d), and 60.482-8(c)] Federally Enforceable Through Title V Permit
32. Delay of leak repair will be allowed if the repair is technologically infeasible without a process unit shutdown and the leaking component is an essential part of a critical process identified in the operator management plan and the leak has been minimized within 15 calendar days. If the valve leak which has been minimized still exceeds the limit in this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but no later than one year from the date of the original leak detection. If the pump leak which has been minimized still exceeds the limit in this permit requires the use of a dual mechanical seal system that includes a barrier fluid system, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but no later than six months from the date of the original leak detection. Delay of repair is allowed for equipment which is isolated from the process and which does not remain in VOC service. [District Rule 4403, 4.2.1, 5.3.1.1 and 40 CFR 60.482-2(c)(1) & 60.482-9(a)&(b)] Federally Enforceable Through Title V Permit
33. Equipment that is in vacuum service is exempt from the control and monitoring requirements and work practice standards of this permit unit, provided it is identified as such in the equipment log required by this permit. [District Rule 4403, 4.2.2 and 40 CFR 60.482-1(d)] Federally Enforceable Through Title V Permit
34. Each pump in light liquid service shall be monitored monthly for leak detection in accordance with EPA Method 21. Each such pump shall be monitored weekly by visual inspection for indication of liquids dripping from the pump seal. [District Rule 4403, 5.2.5 and 40 CFR 482-2(a)(1) and 482-2(b)(2)] Federally Enforceable Through Title V Permit
35. Each pump in light liquid service, equipped with a dual mechanical seal system that includes a barrier fluid system, is exempt from the other leak detection monitoring requirements for this permit unit, provided requirements pursuant to 40 CFR 60.482-2(d) are met. The barrier fluid system of such exempt equipment shall be equipped with a sensor system to detect seal system failure, barrier fluid system failure, or both. Each such pump shall be checked weekly for liquid dripping from the seals. Each sensor shall be checked daily or equipped with an audible alarm. Such exempted equipment shall be documented in the OMP. [40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. All compressors associated with this permit unit shall be reciprocating compressors in wet gas service only unless operator demonstrates otherwise. In wet gas service means that a piece of equipment contains or contacts the field gas before the extraction step in the process. [40 CFR 60.482-3(b), 60.633(f), 60.482-3(a), and 60.632(f)] Federally Enforceable Through Title V Permit
37. Each pressure relief device in gas/vapor service shall be monitored quarterly and within 1 day after each pressure release to detect leaks of 10,000 ppm or greater. [District Rule 4403, 5.2.6 and 40 CFR 60.633(b)(1) and (2)] Federally Enforceable Through Title V Permit
38. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, so that the open end is sealed at all times, except during operations requiring process fluid flow through the valve or line. [District Rule 4403, 5.2.2 and 40 CFR 60.482-6(a)] Federally Enforceable Through Title V Permit
39. Each open-ended valve or line equipped with a second valve shall be operated so that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6(b)] Federally Enforceable Through Title V Permit
40. When a double block-and-bleed system is being used, the bleed valve or line may remain open only during operations that require venting the line between the block valves. [40 CFR 60.482-6(c)] Federally Enforceable Through Title V Permit
41. Each valve in gas/vapor service or light liquid service shall be monitored monthly to detect leaks using EPA Method 21. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter. If a leak is subsequently detected, monitoring shall revert to monthly. [40 CFR 60.482-7(a), (b), and (c)] Federally Enforceable Through Title V Permit
42. For a valve in gas/vapor service or light liquid service, first attempts at repair shall include the following where practicable: 1) tightening of bonnet bolts, 2) replacement of bonnet bolts, 3) tightening of packing gland nuts, and 4) injection of lubricant into lubricant packing. [40 CFR 60.482-7(e) and 60.482-8(d)] Federally Enforceable Through Title V Permit
43. Any valve in gas/vapor service or light liquid service that is designated in the equipment log list and OMP as an unsafe-to-monitor valve is exempt from the monthly leak inspection requirements for this permit unit, provided: 1) the owner/operator demonstrates the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence, and 2) a written plan is adhered to that requires monitoring of the valve as frequently as practicable during safe-to-monitor times and at least annually and during shutdown. [District Rule 4403, 5.2.4; 40 CFR 60.482-7(g)] Federally Enforceable Through Title V Permit
44. Any valve in gas/vapor service or light liquid service that is designated in the equipment log list and OMP as a difficult-to-monitor (inaccessible) valve is exempt from the monthly leak inspection requirements for this permit unit, provided: 1) the owner/operator demonstrates the valve cannot be monitored with out elevating the monitoring personnel more than 15 feet above a support surface, or that it is over 6 feet away from a platform, 2) the process unit within which the valve is located either becomes an affected facility through 40 CFR 60.14 or 60.15 or if the owner/operator designates less than 3.0% of the total number of valves as difficult-to-monitor, and 3) a written plan is adhered to that, requires monitoring of the valve at least annually and during shutdown. [District Rule 4403, 3.1.7 and 5.2.4; 40 CFR 60.482-7(h)] Federally Enforceable Through Title V Permit
45. Components that are located in inaccessible locations or in areas unsafe for personnel shall be inspected and repaired at least annually and during shutdown, and such components shall be identified in the OMP. [District Rule 4403, 5.2.4] Federally Enforceable Through Title V Permit
46. Pressure relief devices in light liquid service and flanges and other connectors shall be monitored within 5 days for leak detection in accordance with EPA Method 21, if evidence of a potential leak is found by sight, sound, smell, or any other detection method. A leak is detected if an instrument reading of 10,000 ppm or greater is measured. [40 CFR 60.482-8(a) and (b)] Federally Enforceable Through Title V Permit
47. An owner or operator of more than one affected onshore natural gas processing facility subject to NSPS requirements for equipment leaks for VOC, may comply with the record keeping requirements for these facilities in one record keeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(1) and (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.

48. When a leak is detected or identified by a Notice to Repair, a weatherproof and readily visible tag shall be attached, bearing the equipment identification number and date which the leak is detected. The tag on a valve may be removed after it has been monitored for 2 successive months and no leak has been detected. The tag of all other equipment may be removed after repair and re-inspection document compliance with the requirements of this permit unit. [District Rule 4403, 5.2.7 and 5.3.2; 40 CFR 60.486(b) and 60.635(b)(1)] Federally Enforceable Through Title V Permit
49. Any leak detected on the basis of sight, smell, or sound or identified by a Notice to Repair shall be identified by the operator affixing a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until repair and reinspection document compliance, whether or not operator inspection is otherwise required by this permit. [District Rule 4403, 5.2.8 and 5.3.2] Federally Enforceable Through Title V Permit
50. When a leak is detected, the following information shall be recorded in an inspection log and such log shall be maintained for a period of five years: 1) instrument and operator identification numbers and the equipment identification number, 2) date the leak was detected, dates and repair method of each attempt to repair the leak, and date of successful repair 3) "above 10,000" if the maximum instrument reading after each repair attempt is equal to or greater than 10,000 ppm, 4) "repair delayed" and reason for delay and expected date of successful repair if a leak is not repaired within 15 days of detection, 5) signature of individual whose decision it was that repair could not be effected without a process shutdown, 6) dates of process unit shutdown that occur while the equipment is unrepaired. [District Rule 4403, 6.2.1 and 40 CFR 60.486(c) and 60.635(2)(I) through (ix)] Federally Enforceable Through Title V Permit
51. Each operator shall maintain an inspection log containing the following additional information: name, location, type of components, and description of any unit where leaking components are found; emission level (ppm) of leak, and method of detection; emission level of recheck after leak is repaired; total number of components inspected, and total number and percentage of leaking components found; identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 4403, 6.2.1] Federally Enforceable Through Title V Permit
52. A log shall be maintained containing the following information: 1) a list of identification numbers for equipment subject to the requirements of this permit unit and 2) a list of identification numbers for equipment in vacuum service. [40 CFR 60.486(e) and 60.635(b)(2)(x)] Federally Enforceable Through Title V Permit
53. A log shall be maintained containing the following information for valves in gas/vapor service and light liquid service: 1) a list of identification numbers for valves designated "unsafe-to-monitor" and for valves designated "difficult-to-monitor", 2) an explanation for each valve stating why it is so designated, and 3) the schedule for monitoring each such valve. [40 CFR 60.486(f)] Federally Enforceable Through Title V Permit
54. A log shall be maintained containing the following information for pumps equipped with a barrier fluid seal system which includes a seal failure sensor, for which a system failure criteria is required to be established, pursuant to the requirements for this permit unit: 1) the design criterion required by this permit and an explanation and 2) any changes to this criterion and reasons for the changes. [40 CFR 60.486(h)] Federally Enforceable Through Title V Permit
55. Information and data used to demonstrate that a reciprocating compressor is in wet gas service shall be recorded in a log. [40 CFR 60.635(c)] Federally Enforceable Through Title V Permit
56. All logs required for this permit unit and all records of required monitoring data and support information shall be retained by the operator for a minimum of five years after the date of an entry, kept in a readily accessible location, and made available upon request to District personnel. [District Rule 4403, 6.2.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
57. A new or modified operator management plan shall be submitted to the APCO with any application for Authority to Construct for modification of this permit unit. [District Rule 4403, 6.1.2] 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.

58. Semiannual reports shall be submitted to the APCO containing the following information: 1) process unit identification, 2) for each month during the reporting period, number of valves, pumps, compressors, and pressure relief devices for which leaks were detected; number of valves, pumps, compressors, and pressure relief devices for which leaks were not repaired within 15 days and a first attempt not made within 5 days of leak detection; the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible 3) dates of process unit shutdowns which occurred within the reporting period, and 4) revisions to items reported in the initial or subsequent semiannual reports. [40 CFR 60.487(a) and (c) and 60.636(c)] Federally Enforceable Through Title V Permit
59. Compliance with Title V permit conditions for this unit shall be deemed compliance with applicable requirements of District Rule 4403, formerly 465.3 (as amended February 16, 1995). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
60. Compliance with Title V permit conditions for this unit shall be deemed compliance with applicable requirements of 40 CFR 60, Subpart KKK. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
61. The sulfur content of the natural gas used to fire the heaters and flare shall be tested weekly except that if compliance with the fuel sulfur content limit is demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit, the source must return to weekly testing until eight consecutive weeks show compliance. The sulfur content shall be determined using ASTM method D2784, D1072, D3031, D4084, or D3426. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
62. A trained observer as defined EPA method 22, shall check visible emissions from the flare at least once per year for a period of 15 minutes. If visible emissions are detected at any time during this period, the operator shall take action as needed to eliminate the visible emissions and a trained observer shall recheck the visible emissions the next time the flare is in operation. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observers name and affiliation, date, estimated wind speed and direction, sky condition and the observer's location relative to the source and sun. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
63. All glycol dehydrator process vent emissions shall be routed to a process natural gas line. [40 CFR 63.765 (c)(1)] Federally Enforceable Through Title V Permit
64. The owner/operator shall not shut down equipment required for compliance with 40 CFR 63 subpart HH if the shutdown would contravene requirements based on subpart HH; unless: 1) the equipment is malfunctioning; or 2) the equipment must be shut down to avoid damage due to a startup, shutdown or malfunction of associated equipment. [40 CFR 63.762(b)] Federally Enforceable Through Title V Permit
65. During startups, shutdowns, and malfunctions when the requirements of 40 CFR 63 subpart HH do not apply pursuant to provision of this permit, the owner/operator shall implement measures to prevent or minimize emissions to the maximum extent practical as described in 40 CFR 63.762 (c). [40 C FR 63.762(c)] Federally Enforceable Through Title V Permit
66. The owner/operator shall prepare a startup, shutdown, and malfunction plan as described in 40 CFR 63.762(d). [40 CFR 63.762(d)] Federally Enforceable Through Title V Permit
67. Annual average benzene emissions shall not exceed 1980 pounds per year. [40 CFR 63.764(e)(ii)] Federally Enforceable Through Title V Permit
68. The owner/operator shall calculate the actual average benzene emissions from glycol dehydrator process vents using GRI-GLYCalc version 3.0 or higher software and the procedures in the software technical reference manual. Inputs shall be representative of actual operating conditions and may be determined using the Gas Research Institute report GRI-95/0368.1. [40 CFR 63.772(b)(2)] Federally Enforceable Through Title V Permit
69. The owner/operator shall maintain the records of actual average benzene emissions (in terms of benzene emission per year) as required by 40 CFR 63.774(b)(1). [40 CFR 63.774(d)(1)(ii)] 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.

70. The owner/operator shall maintain all records required by 40 CFR 63.774. Records shall be maintained for a period of 5 years following the date of each occurrence, measurement, maintenance corrective action, report or period. All applicable records shall be maintained in hard copy or computer readable form in a manner such that they can be readily accessed. The most recent 12 months of records shall be maintained on site or shall be accessible from a central location by computer or other means that provides for access within 2 hours. The remaining 4 years of records may be retained offsite. [40 CFR 63.774] Federally Enforceable Through Title V Permit

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-1-10 : Aug 11 2009 7:52AM - THAOC

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-2-3

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

THREE 14,000 GALLON NATURAL GASOLINE STORAGE TANKS, ONE NATURAL GASOLINE LOADING RACK WITH TWO 25 HP PUMPS, ONE PROPANE/BUTANE LOADOUT RACK WITH ONE 10 HP PUMP, AND ODORANT INJECTION SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Natural gasoline/LPG storage tanks and loading rack shall be equipped with vapor loss collection system as required by Rule 4624 (as amended 12/17/92). [District Rule 4624, 5.0] Federally Enforceable Through Title V Permit
2. Odorant injection system shall include pressurized odorant storage vessel with no vent to the atmosphere (except for emergency pressure relief), odorant injection module with turbine meter, and fugitive components. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Odorant storage tank shall not be filled more than once per day and the operator shall record the number of times the odorant storage tank is filled each day. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. VOC emissions from fugitive components installed in conjunction with the odorant injection system shall be less than 0.5 lb per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All valves and flanges shall be maintained leak-free (as defined in Rule 4624, as amended 12/17/92). [District Rule 4624, 5.4] Federally Enforceable Through Title V Permit
6. Permittee shall maintain with the permit, accurate fugitive component counts for components associated with the odorant injection system and resulting emissions calculated using U.S. EPA publication EPA-450/3-83-007, Tables 3-1 and 3-4. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The loading rack shall be equipped with bottom loading and a vapor collection and control system such that VOC emissions do not exceed 0.08 pounds per 1000 gallons of organic liquid with greatest vapor pressure loaded. [4624, 5.1.1 and Kern County Rule 413] Federally Enforceable Through Title V Permit
8. Construction, reconstruction (as defined in District Rule 4001, amended January 19, 1995), or expansion of any top loading facility shall not be allowed. [District Rule 4624, 5.5] Federally Enforceable Through Title V Permit
9. Loading and vapor collection and control equipment shall be designed, installed, maintained and operated such that there are no leaks or excess organic liquid drainage at disconnections. A leak shall be defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at a distance of one centimeter from the potential source in accordance with EPA Method 21. Excess liquid drainage shall be defined as exceeding 10 mls per average of 3 consecutive disconnects. [District Rule 4624, 5.4 and Kern County Rule 413] 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 the loading of organic liquids, the operator shall perform and record the results of quarterly leak inspections of the loading and vapor collection equipment at each loading arm. Leak inspections shall be conducted using sight, sound, smell and instrument methods to detect leaks. Instrument detection shall be conducted using EPA Method 21 and shall be measured at a distance of one centimeter from the potential source. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: A) Zero air (less than 10 ppm of hydrocarbon in air); and B) Mixture of methane and air at a concentration of about, but less than, 10,000 ppm methane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Corrective steps shall be taken at any time the operator observes excess drainage at disconnect. In addition, the operator shall perform and record the results of monthly drainage inspections at disconnect for each loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Drainage inspections shall be completed before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one (1) minute of collection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Each detected leak shall be repaired within 15 calendar days of detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. The permittee shall maintain an inspection log containing at least the following: A) dates of leak and drainage inspections, B) leak determination method, C) findings, D) corrective action (date each leak or excess drainage condition repaired, reasons for any leak repair interval in excess of 15 days), and E) inspector name and signature. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. All records necessary to determine compliance with the VOC emission limit for this unit shall be maintained for a period of at least 5 years and shall include component counts and recognized emission factors for fugitive emission sources. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Compliance with these permit conditions in the Title V permit shall be deemed compliance with the requirements of Kern County Rule 413. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
17. Compliance with these permit conditions in the Title V permit shall be deemed compliance with the following requirements: District Rule 4624, section 5.1.1 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-22-5

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

600 BHP CUMMINS SERIAL #31134966 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. 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 Rules 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-22-5 - Aug 11 2009 7:52AM - THAOC



San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-48-23-2

EXPIRATION DATE: 08/31/2008

SECTION: 01 TOWNSHIP: 32S RANGE: 23E

**EQUIPMENT DESCRIPTION:**

14,500 GALLON NATURAL GASOLINE STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The tank shall maintain a working pressure at all times sufficient to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-23-2 : Aug 11 2009 7:52AM - THAOC

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-48-25-4

**EXPIRATION DATE:** 08/31/2008

**SECTION:** 01 **TOWNSHIP:** 32S **RANGE:** 23E

**EQUIPMENT DESCRIPTION:**

244 BHP JOHN DEERE MODEL 7539 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. 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 Rules 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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 2520, 9.4.2 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

SAR-25-4 - Aug 11 2008 7:52AM - THAOC

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-48-29-3

EXPIRATION DATE: 08/31/2008

## EQUIPMENT DESCRIPTION:

1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

## PERMIT UNIT REQUIREMENTS

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1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
3. The fuel line shall be physically disconnected from this unit when it is maintained in a dormant status. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Permittee shall notify the District at least seven (7) calendar days prior to removing this unit from dormant status and recommencing operation. [District Rule 4702] Federally Enforceable Through Title V Permit
5. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
6. Upon recommencing operation, permittee shall meet all emissions, testing, monitoring and operational requirements for this unit as set forth on this permit. [District Rule 2080] Federally Enforceable Through Title V Permit
7. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
8. IC engine shall be equipped with controller which readily indicates air/fuel ratio setting within tolerance limits as recommended by the catalyst system supplier. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Engine shall be equipped with a non-resettable elapsed time meter or other APCO approved alternate device, method or technique to determine operating time. The time meter or alternative device shall be properly maintained and operated in accordance with manufacturer's instructions. [District Rule 4702] Federally Enforceable Through Title V Permit
10. Emissions shall not exceed any of the following: NO<sub>x</sub> (as NO<sub>2</sub>): 5 ppmvd @ 15% O<sub>2</sub>, CO: 56 ppmvd @ 15% O<sub>2</sub>, VOC: 25 ppmvd @ 15% O<sub>2</sub>, or PM<sub>10</sub>: 0.02 gram/hp hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Natural gas sulfur content shall not exceed 1 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
12. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

6.48.20.3 - April 11, 2000 7:52AM - THAC

13. Source tests to show compliance with CO, NO<sub>x</sub>, and VOC emission limits shall be conducted at least once every 12 months, by District-witnessed sample collection by independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The following test methods shall be used NO<sub>x</sub>: EPA Method 7E or ARB Method 100, CO: EPA Method 10 or ARB Method 100, VOC: EPA Method 18 or 25, and stack gas oxygen: EPA Method 3, EPA method 3A, or ARB Method 100. [District Rule 4701, 6.4] Federally Enforceable Through Title V Permit
17. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> at least once every calendar quarter using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. NO<sub>x</sub> emission readings shall be averaged over a 15 consecutive-minute sample reading by either taking a cumulative 15 consecutive-minute sample or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
18. If the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
19. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the fuel being fired in the IC engine shall be determined using ASTM method D 2784, D 1072, D 3031, D 4084, D 3246, D 6228, or grab sample analysis by double GC for H<sub>2</sub>S and mercaptans. [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.

23. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested each quarter, but only if the engine is operated in that calendar quarter. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
25. The permittee shall monitor and record the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor on a daily basis to assure the emission control system is functioning properly. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The approved catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor operating range for monitoring daily compliance shall be established from manufacturer's information or by source testing this unit, and shall be stated on this permit. This operating range must be determined during the next source test or within six months, whichever comes first. [40 CFR Part 64] Federally Enforceable Through Title V Permit
27. If the catalyst inlet and outlet temperatures or millivolt reading, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
28. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
29. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
30. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor. [40 CFR Part 64] Federally Enforceable Through Title V Permit
32. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
33. The permittee shall maintain monthly records of the following information: hours of operation, type, quantity and sulfur content of fuel(s) used, maintenance and/or modifications performed, emissions monitoring data and compliance source test results. Records shall be retained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 2201, 4701 and 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-48-30-3

**EXPIRATION DATE:** 08/31/2008

**EQUIPMENT DESCRIPTION:**

1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

## PERMIT UNIT REQUIREMENTS

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1. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
2. IC engine shall be equipped with controller which readily indicates air/fuel ratio setting within tolerance limits as recommended by the catalyst system supplier. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a non-resettable elapsed time meter or other APCO approved alternate device, method or technique to determine operating time. The time meter or alternative device shall be properly maintained and operated in accordance with manufacturer's instructions. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed any of the following: NO<sub>x</sub> (as NO<sub>2</sub>): 5 ppmvd @ 15% O<sub>2</sub>, CO: 56 ppmvd @ 15% O<sub>2</sub>, VOC: 25 ppmvd @ 15% O<sub>2</sub>, or PM<sub>10</sub>: 0.02 gram/hp hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Natural gas sulfur content shall not exceed 1 gr S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Source tests to show compliance with CO, NO<sub>x</sub>, and VOC emission limits shall be conducted at least once every 12 months, by District-witnessed sample collection by independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The following test methods shall be used NO<sub>x</sub>: EPA Method 7E or ARB Method 100, CO: EPA Method 10 or ARB Method 100, VOC: EPA Method 18 or 25, and stack gas oxygen: EPA Method 3, EPA method 3A, or ARB Method 100. [District Rule 4701, 6.4] 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.

11. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> at least once every calendar quarter using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. NO<sub>x</sub> emission readings shall be averaged over a 15 consecutive-minute sample reading by either taking a cumulative 15 consecutive-minute sample or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
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17. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested each quarter, but only if the engine is operated in that calendar quarter. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CRIMSON RESOURCE MANAGEMENT

Location: 1-C GAS PLANT, TAFT, CA

S-48-30-3 Aug 11 2009 7:52AM - THAOC

19. The permittee shall monitor and record the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor on a daily basis to assure the emission control system is functioning properly. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. [40 CFR Part 64] Federally Enforceable Through Title V Permit
20. The approved catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor operating range for monitoring daily compliance shall be established from manufacturer's information or by source testing this unit, and shall be stated on this permit. This operating range must be determined during the next source test or within six months, whichever comes first. [40 CFR Part 64] Federally Enforceable Through Title V Permit
21. If the catalyst inlet and outlet temperatures or millivolt reading, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
23. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures and millivolt reading of the O2 sensor. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
27. The permittee shall maintain monthly records of the following information: hours of operation, type, quantity and sulfur content of fuel(s) used, maintenance and/or modifications performed, emissions monitoring data and compliance source test results. Records shall be retained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit

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



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# ATTACHMENT C

Detailed Facility List

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### Detailed Facility Report

For Facility=48 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>CRIMSON RESOURCE MANAGEMENT</b>	<b>FAC #</b> S 48	<b>TYPE:</b>	<b>TitleV</b>	<b>EXPIRE ON:</b>
<b>1-C GAS PLANT</b>	<b>STATUS:</b> A	<b>TOXIC ID:</b>	<b>50048</b>	<b>AREA:</b> 9 /
<b>TAFT, CA</b>	<b>TELEPHONE:</b> (661) 837-8081			<b>INSP. DATE:</b> 03/10

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-48-1-12	3.450 MMBtu/hr	3020-02 F	1	607.00	607.00	A	3.2 MMBTUHR GAS PLANT INCLUDING: COMPRESSION SYSTEM, DRIP CONDITIONING SYSTEM, GLYCOL SYSTEM, SEPARATION SYSTEM, FRACTIONATION SYSTEM, HEATING SYSTEM, REFRIGERATION SYSTEM, COOLING WATER SYSTEM, MOLECULAR SIEVE SYSTEM, CO2 SCRUBBER SYSTEM, AND SMOKELESS EMERGENCY FLARE
S-48-2-4	60 HP	3020-01 C	1	197.00	197.00	A	THREE 14,000 GALLON NATURAL GASOLINE STORAGE TANKS, ONE NATURAL GASOLINE LOADING RACK WITH TWO 25 HP PUMPS, ONE PROPANE/BUTANE LOADOUT RACK WITH ONE 10 HP PUMP, AND ODORANT INJECTION SYSTEM
S-48-22-6	600 bhp	3020-10 D	1	479.00	479.00	A	600 BHP CUMMINS SERIAL #31134966 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-48-23-3	14,500 GALLONS	3020-05 B	1	93.00	93.00	A	14,500 GALLON NATURAL GASOLINE STORAGE TANK
S-48-25-5	244 bhp	3020-10 C	1	240.00	240.00	A	244 BHP JOHN DEERE MODEL 7539 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-48-29-4	1970 bhp	3020-10 F	1	749.00	749.00	A	1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION
S-48-30-4	1,469 KW electric generation	3020-08A C	1	1,533.00	1,533.00	A	1,970 BHP WAUKESHA MODEL P9390GSI NATURAL GAS-FIRED IC ENGINE WITH A ENVICAT 5319 OXIDATION CATALYST IN SERIES WITH A THREE WAY CATALYST, AIR TO FUEL RATIO CONTROLLER AND POSITIVE CRANKCASE VENTILATION SYSTEM, DRIVING A 1469 KW ELECTRICAL GENERATOR USED FOR GAS PLANT INLET GAS COMPRESSION

Number of Facilities Reported: 1