



JAN 10 2012

John Haley
Aera Energy LLC
P O Box 11164
Bakersfield, CA 93389-1164

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-1543
Project # S-1085285**

Dear Mr. Haley:

The District has issued the Final Title V Permit for Aera Energy LLC. The preliminary decision for this project was made on May 14, 2010. A summary of the comments and the District's response to each comment is included with the Renewed Final Title V Permit and public notice to be published approximately three days from the date of this letter.

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

Sincerely,



David Warner
Director of Permit Services

Attachments

cc: Tim Bush, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061
www.valleyair.org

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585
www.healthyairliving.com



JAN 10 2012

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

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-1543
Project # S-1085285**

Dear Mr. Rios:

The District has issued the Final Title V Permit Renewal for Aera Energy LLC. The preliminary decision for this project was made on May 14, 2010. A summary of the comments and the District's response to each comment is included with the Renewed Final Title V Permit and public notice to be published approximately three days from the date of this letter.

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

Sincerely,



David Warner
Director of Permit Services

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cc: Tim Bush, Permit Services Engineer

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JAN 10 2012

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

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-1543
Project # S-1085285**

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Aera Energy LLC. The preliminary decision for this project was made on May 14, 2010. A summary of the comments and the District's response to each comment is included with the Renewed Final Title V Permit and public notice to be published approximately three days from the date of this letter.

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

Sincerely,



David Warner
Director of Permit Services

Attachments

cc: Tim Bush, Permit Services Engineer

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Executive Director/Air Pollution Control Officer

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Bakersfield Californian

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

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the renewed Federally Mandated Operating Permit to Aera Energy LLC for its Gas Plant in Taft, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1085285, is available for public inspection at 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-1543

EXPIRATION DATE: 05/31/2016

LEGAL OWNER OR OPERATOR:
MAILING ADDRESS:

AERA ENERGY LLC
PO BOX 11164
BAKERSFIELD, CA 93389-1164

FACILITY LOCATION:

BELRIDGE GAS PLANT
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-1543-0-3

EXPIRATION DATE: 05/31/2016

FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. 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 and Kern County Rule 111] Federally Enforceable Through Title V Permit
3. 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 and Kern County Rule 111] Federally Enforceable Through Title V Permit
4. 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
5. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/19/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. 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
9. The operator shall maintain records of required monitoring that include, where applicable: 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
10. 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: AERA ENERGY LLC
Location: BELRIDGE GAS PLANT, CA
S-1543-0-3 - Jan 9 2012 4:26PM - BUSHHT

11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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, 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.

24. 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 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
25. All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
26. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
27. 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
28. 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
29. 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
30. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
31. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
32. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
33. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
34. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
35. 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 (9/16/04) or Rule 8011 (8/19/04). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
36. 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.

37. 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
38. 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
39. 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
40. A leak is defined as 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 60.482-2(b)(1)] Federally Enforceable Through Title V Permit
41. The 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
42. Each piece of equipment or component in VOC service or in wet gas service (as defined in 40 CFR 60 Subpart KKK) shall be tested for compliance with leak emission limits. [40 CFR 60.632(f)] Federally Enforceable Through Title V Permit
43. Leak detection shall be performed in accordance with EPA Method 21. [District Rule NSR] Federally Enforceable Through Title V Permit
44. Each hatch shall be closed at all times except during sampling or attended maintenance operations. [District Rule NSR] Federally Enforceable Through Title V Permit
45. All components, excluding flanges and threaded connections and components identified in the operator's management plan that are located in inaccessible locations or in areas unsafe for personnel, 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), and (d), and 60.483-2(b)(4)] Federally Enforceable Through Title V Permit
46. 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
47. 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

48. 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. [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
49. If the leak 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 (OMP), delay of repair is allowed. However the operator shall minimize the leak 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 in no case 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 and the repair 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 in no case 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) and 60.482-9(a) and (b)] Federally Enforceable Through Title V Permit
50. Equipment that is in vacuum service is exempt from the control and monitoring requirements and work practice standards of this permit, 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
51. 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 60.482-2(a)(1) and 60.482-2(b)(2)] Federally Enforceable Through Title V Permit
52. 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. [District Rule 2520, 9.4.2 and 40 CFR 60.482-2(d)] Federally Enforceable Through Title V Permit
53. Each pressure relief device in gas/vapor service, except those vented to flares, shall be monitored quarterly and within 1 day after each pressure release to the atmosphere to detect leaks of 10,000 ppm or greater. [40 CFR 60.633(b)(1) and (2)] Federally Enforceable Through Title V Permit
54. 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
55. 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
56. 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
57. 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
58. As an alternative to monitoring all valves in gas/vapor or light liquid service in the first month of a quarter, permittee may elect to subdivide the process unit into 2 or 3 subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months. If a leak is subsequently detected, monitoring shall revert to monthly. Permittee must keep records of the valves assigned to each subgroup. [40 CFR 60.482-7(c)(1)(ii)] 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.

59. 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
60. 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
61. Pressure relief devices in light liquid service and flanges and other connectors shall be tested for leaks with a hydrocarbon analyzer within 5 days 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
62. 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 recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility. [40 CFR 60.486(a)(1) and (2)] Federally Enforceable Through Title V Permit
63. 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
64. When a leak is detected, the following information shall be recorded in an inspection log: 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. The inspection log shall be maintained for a period of five years. [40 CFR 60.486(c) and 60.635(2)(i) through (ix)] Federally Enforceable Through Title V Permit
65. A log for equipment subject to the requirements of NSPS subpart KKK shall be maintained containing the following information: 1) A list of identification numbers. 2) A list of identification numbers for equipment that are designated for no detectable emissions. The designation of equipment shall be signed by the owner or operator. 3) A list of equipment identification numbers for pressure relief devices. 4) The dates of each leak test. 5) A list of identification numbers for equipment in vacuum service. [40 CFR 60.486(e)] Federally Enforceable Through Title V Permit
66. 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
67. 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

68. 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
69. An initial semiannual report containing fugitive emissions monitoring results, pursuant to 40 CFR 60.487(b) and 60.636(b), shall be submitted to the APCO beginning 6 months after the initial startup date. [40 CFR 60.487(b) and 60.636(b)] Federally Enforceable Through Title V Permit
70. 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 report. [40 CFR 60.487(a), (c) and 60.636(c)] Federally Enforceable Through Title V Permit
71. Vapor recovery systems (for example, condensers and adsorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater. [40 CFR 60.482-10(b)] Federally Enforceable Through Title V Permit
72. If the vapor collection system or closed vent system is constructed of hard-piping, the owner or operator shall conduct an initial inspection according to the procedures specified in EPA Method 21 using the calibration gases as specified in the requirements for this permit unit. The owner or operator shall also conduct annual visual inspections for visible, audible, or olfactory indications of leaks. [40 CFR 60.482-10(f)(1) and 40 CFR 60.485(b)] Federally Enforceable Through Title V Permit
73. If the vapor collection system or closed vent system is constructed of ductwork, the owner or operator shall conduct an initial inspection and annual inspections according to the procedures specified in EPA Method 21 using the calibration gases as specified in the requirements for this permit unit. The owner or operator shall also conduct annual visual inspections for visible, audible, or olfactory indications of leaks. [40 CFR 60.482-10(f)(2) and 40 CFR 60.485(b)] Federally Enforceable Through Title V Permit
74. If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements as specified in this permit unit. [40 CFR 60.482-10(i)] Federally Enforceable Through Title V Permit
75. Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. However the operator shall minimize the leak within 15 calendar days. If the 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 in no case later than one year from the date of the original leak detection. [40 CFR 60.482-10(h)] Federally Enforceable Through Title V Permit
76. Any parts of the closed vent system that are designated as unsafe to inspect are exempt from the inspection requirements as specified in this permit unit if the owner or operator complies with the following: 1) the owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with the inspection requirements; and 2) the owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. [40 CFR 60.482-10(j)] Federally Enforceable Through Title V Permit
77. Any parts of the closed vent system that are designated as difficult to inspect are exempt from the inspection requirements as specified in this permit unit if the owner or operator complies with the following: 1) the owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and 2) the process unit within which the closed vent system is located becomes an affected facility through modification or reconstruction, as defined in 40 CFR 60.14 and 60.15, or the owner or operator designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and 3) the owner or operator has a written plan that requires inspection of the equipment at least every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum. [40 CFR 60.482-10(k)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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78. A log shall be maintained containing the following information: 1) identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment; 2) identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment; 3) for each inspection conducted in accordance with EPA Method 21 during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected; and 4) for each visual inspection conducted for visible, audible, or olfactory indications of leaks during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 60.482-10(l) and 40 CFR 60.485(b)] Federally Enforceable Through Title V Permit
79. Closed vent systems and control devices shall be operated at all times when emissions may be vented to them. [40 CFR 60.482-10(m)] Federally Enforceable Through Title V Permit
80. Each pressure relief valve without rupture disc shall be set at adequately high value (a minimum of 110% of or 25 psig above the highest normal operating pressure, whichever is lower) to contain vapors inside vessel in normal operation. [District Rule 2080] Federally Enforceable Through Title V Permit
81. On December 31, 2004, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 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
82. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (12/17/09); 8021 (8/19/04); 8031 (8/19/04); 8041 (8/19/04); 8051 (8/19/04); 8061 (8/19/04); and 8071 (9/16/04). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-4-21

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

GAS PROCESSING PLANT WITH INLET GAS SCRUBBERS, INLET GAS FILTER SEPARATOR(S), SULFUR REMOVAL VESSEL EXHAUST GAS TREATMENT SYSTEM, SULFUR REMOVAL PROCESS PLANT WITH 1.9 MMBTU/HR THERMAL OXIDIZER, FRACTIONATION SECTION, ETHYLENE GLYCOL INJECTION, PROPANE REFRIGERATION, HEAT TRANSFER OIL CIRCULATION SYSTEM, FUEL GAS SYSTEM, AND METHANOL INJECTION

PERMIT UNIT REQUIREMENTS

1. Operation shall include sulfur removal vessels employing fixed-bed granular iron oxide (or equivalent) sweetening process. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Operation shall include sulfur removal process plant employing chelated iron redox (or equivalent) sweetening process. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Operation shall be equipped with H₂S sampling port at the sulfur removal vessel exhaust and the sulfur removal process plant exhaust. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Operation may include H₂S scavenger chemical storage and injection equipment listed on S-1543-41-0 to be utilized on an as-needed basis, for supplemental removal of H₂S from produced gas, to maintain gas sulfur content limit. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Active chemical concentrations in the Sulfurox regeneration solution shall be maintained by continuous chemical injection at appropriate chemical feed rates to ensure that H₂S emissions do not increase as a result of regeneration solution degradation or exhaustion. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Gas processing plant equipment may also include outlet gas sulfur removal vessels and associated piping. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Off-gas sulfur concentration from the sulfur removal plant regenerator into the thermal oxidizer shall not exceed 75 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Hydrogen sulfide (H₂S) concentration at discharge of sulfur removal vessels and/or sulfur removal plant shall not exceed 14 ppmv as measured by Draeger tubes. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Total stationary source fugitive component VOC emissions shall not exceed 320.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Emissions of VOCs in regenerator vent gas shall not exceed 2.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Thermal oxidizer shall be used when regenerator vent gas VOC emissions rate exceeds 1.9 lb/day as calculated from measurements of VOC concentration in regenerator vent gas and regenerator vent gas flow rate. Thermal oxidizer shall remain in use until VOC emissions rate is less than 1.9 lb/day for 8 consecutive weeks. [District Rule 2201] Federally Enforceable Through Title V Permit
12. When thermal oxidizer is not in use, fuel line shall be disconnected (or locked out) and regeneration vent emissions shall be routed to bypass stack. [District Rule 1070] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. Emissions of reduced sulfur compounds (as H₂S) in regeneration vessel vent gas shall not exceed 0.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Flow rate of regeneration vent vessel vent gas shall be recorded each time vent gas is sampled for VOC or H₂S, with the recorded flow rates used to perform mass balance emission calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Water-cooled heat exchangers shall be maintained and operated in a manner minimizing emission of VOC's in cooling tower. [District NSR Rule] Federally Enforceable Through Title V Permit
16. All pumps in VOC service installed after June 25, 2001 (excluding routine replacements of pumps installed prior to June 25, 2001) shall be subject to the BACT leak action level as described in this permit. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Pump seals in VOC service which are vented to a closed vent system (i.e. flare header) may be exempted from inspection and maintenance (I&M) requirements of 40 CFR Part 60, Subpart KKK and Rule 4409. For any I&M-exempt pump seals, permittee shall comply with record-keeping requirements of 40 CFR 60.486(d) and associated closed vent system shall comply with design and performance criteria set forth in 40 CFR 60.482-10 and Rule 4409, Section 3.4. [40 CFR 60.632(a), 60.482-2(f), 60.482-10, 60.486(d), District Rule 4409, 3.4, 4.2.1] Federally Enforceable Through Title V Permit
18. Only utility wastewater and process wastewater containing [less than 35 mg/L] VOC's shall be stored in Sump JC-2. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Heat transfer oil drain pit JC-3 shall be used only during breakdown, as defined in Rule 1100 (amended December 17, 1992), of heat transfer oil circulation unit. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Filters handling fluids with greater than 10% VOCs by weight shall be completely drained before cleaning, and cleaning shall be performed in a manner minimizing VOC emissions. For filters excluded from this handling requirement, VOC content of fluids shall be documented by Double GC analysis, EPA test method 8240, or EPA Method 24. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Leaks from valves, connectors, and other components (not including pump and compressor seals) subject to a BACT requirement shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 100 ppmv above background when measured as close as possible but not greater than one (1) cm from the potential source. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Leaks from pump and compressor seals subject to a BACT requirement shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 500 ppmv above background when measured as close as possible but not greater than one (1) cm from potential source. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Components subject to the BACT leak action level requirements shall be tagged or listed in an on-site log such that they may be readily identified as subject to BACT. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Components subject to the BACT leak action level requirements are valves, connectors, pump seals, and compressor seals, and other components with emission factors in EPA Publication 450/3-83-007 which are subject to Rule 4409 (adopted April 20, 2005) and associated with the sulfur removal process plant, new refrigeration skid, other modifications performed to increase the production from 50 MM scf/day to 85 MM scf/day (new equipment installed after June 25, 2001). BACT leak action threshold does not apply to identical replacement of components existing prior to June 25, 2001. [District NSR Rule and Rule 4409] Federally Enforceable Through Title V Permit
25. Components subject to the BACT leak action level shall be cataloged, screened, and inspected with a minimum of 25% of the components inspected each quarter. Any leak greater than 500 ppmv for pump seals, and compressor seals and 100 ppmv for valves connectors and other components, when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21 or leaking at a rate of greater than 3 drops of liquid per minute, shall be repaired in a manner consistent with the procedures specified in Rule 4409 (adopted April 20, 2005). This requirement shall not apply to inaccessible or unsafe-to-access components as identified in the revised Operator Management Plan required by Rule 4409. [District NSR Rule and Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. For components not subject to BACT leak action level, permittee shall comply with monitoring, inspection, maintenance, and recordkeeping, and reporting requirements of 40 CFR Part 60 Subpart KKK and Rule 4409. [40 CFR Part 60 Subpart KKK and District Rule 4409] Federally Enforceable Through Title V Permit
27. Component screening shall be performed in accordance with EPA reference Method 21. [District NSR Rule] Federally Enforceable Through Title V Permit
28. Portable hydrocarbon detection instrument shall be operated and calibrated in accordance with recommendations in CAPCOA/CARB's California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities (February, 1999). [District NSR Rule] Federally Enforceable Through Title V Permit
29. Flanges shall be monitored with a portable hydrocarbon detection instrument along the entire circumference of the flange-gasket interface. Threaded connections, tubing fittings, and other types of non-permanent joints shall be monitored along the entire circumference of joint interface. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Valves shall be monitored with a portable hydrocarbon detection instrument where the stem comes through the packing gland, and at any attached or connected body flange(s), bonnet flange(s), or plug(s). [District NSR Rule] Federally Enforceable Through Title V Permit
31. All other components such as diaphragms, instruments, and meters shall be monitored at all points of possible emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
32. 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
33. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components 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
34. 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
35. 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
36. 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
37. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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38. 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
39. 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
40. 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
41. 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
42. 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
43. 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
44. 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
45. 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
46. 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
47. 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
48. 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
49. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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50. 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
51. 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
52. 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
53. 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
54. 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
55. 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
56. All pipes, in VOC 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
57. 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
58. 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
59. 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
60. 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
61. 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
62. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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63. 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
64. 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
65. 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
66. 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
67. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

68. 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
69. 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
70. 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
71. 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
72. 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
73. 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.

74. 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
75. 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
76. 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
77. FOR PURPOSES OF RULE 4409 COMPLIANCE, 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
78. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409, 6.3.3] Federally Enforceable Through Title V Permit
79. 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
80. 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
81. 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
82. 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
83. Permittee shall determine concentration of VOC in regeneration vent gas, regeneration vent gas flow rate, and regeneration vent gas VOC emissions (in lb/day) weekly for eight consecutive weeks. After demonstrating compliance for eight consecutive weeks VOC emissions testing may be conducted on a quarterly basis. If regeneration vent gas VOC emissions exceed 1.9 lb/day as measured on a quarterly basis, weekly sampling shall resume. Gas analysis shall be performed using ASTM D-3588, EPA Method 18, or EPA Method 25A. [District Rule 2201] Federally Enforceable Through Title V Permit
84. Permittee shall determine concentration of sulfur in regeneration vent gas, regeneration vent gas flow rate, and regenerator vent gas sulfur emissions (in lb/day) weekly for eight consecutive weeks. After demonstrating compliance for eight consecutive weeks testing may be conducted on a quarterly basis. If regeneration vent gas sulfur emissions exceed 0.4 lb/day as measured on a quarterly basis, weekly sampling shall resume. Weekly gas sampling shall be performed using Draeger tubes and quarterly gas analysis using ASTM method D3246 or double GC for H2S and mercaptans. [District Rule 1081 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

85. Sulferox regeneration vent stack shall be equipped with a valved or capped sampling extraction port or tubing accessible for District inspection upon request. [District Rule 1081 and 2201] Federally Enforceable Through Title V Permit
86. Permittee shall maintain records of weekly and quarterly measurements of concentration of sulfur and VOCs in regeneration vent gas, regeneration vent gas flow rate, and regeneration vent gas sulfur and VOC emissions. Such records will be made readily available for District inspection upon request for a period of five years. [District Rule 2201 and Rule 1070, 4.0] Federally Enforceable Through Title V Permit
87. Records of the sources and VOC content (mg/L) of utility wastewater and process wastewater in Sump JC-2 shall be kept and made available for District inspection upon request. [VOC content shall be determined by EPA Test Method 413.2, or 418.1 and/or, if necessary, EPA Test Method 8240. Hydrocarbons heavier than C14, as determined by Test Method ASTM E 260-85, may be excluded from the total concentration.] [District Rule 1070] Federally Enforceable Through Title V Permit
88. Permittee shall maintain for a period of five years, accurate records of fugitive inspection component counts, leak screening values in excess of 10,000 ppmv, leak screening values less than 10,000 ppmv, and shall, as approved by the District, calculate fugitive emissions using February 1999 CAPCOA California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c. Permittee shall make records of component counts, screening values, and calculations readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
89. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
90. 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
91. 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
92. 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
93. Storage vessels with potential for flash emissions shall comply with 40 CFR 63.766. [40 CFR 63.766] Federally Enforceable Through Title V Permit
94. 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
95. 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
96. 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
97. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

98. 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
99. 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
100. 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-1543-5-12

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

13.6 MMBTU/HR GAS-FIRED SOLAR SATURN GAS TURBINE ENGINE/COMPRESSOR WITH GAS FIRED 5.9 MMBTU/HR DUCT BURNER DRIVING GAS COMPRESSOR SERVED BY CATASTAK TM SELECTIVE CATALYST REDUCTION (SCR) SYSTEM - OPERATION A

PERMIT UNIT REQUIREMENTS

1. Operation shall include fuel gas piping from inlet scrubber MS-101 and inlet water knockout vessel MS-102, and compressor discharge piping to knockout vessel MS-301. [District Rule 2010, 4.0] Federally Enforceable Through Title V Permit
2. Fugitive volatile organic compound (VOC) emission sources shall be inspected, repaired, and maintained such that the total stationary source VOC emission rate does not exceed the stationary source limit specified in permit S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
3. "Startup" and "shutdown" of gas turbine engine and/or duct burner, defined in 40CFR 60.2, shall not exceed a time period of two hours for each occurrence. [District Rules 2080, 3.0 and 4703, 3.25] Federally Enforceable Through Title V Permit
4. Total gas consumption rate for gas turbine engine/compressor and duct burner shall not exceed 468 MMBtu/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Total gas consumption rate for gas turbine engine/compressors S-1543-5 and S-1543-6 and waste gas flare S-1543-7 shall not exceed 1,601,176 scf/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Gas turbine engine with duct burner on emission rates shall not exceed any of the following: NOx (as NO₂): 9 ppmv @ 15% O₂ and 1.04 lb/hr, SOx (as SO₂): 0.40 lb/hr, PM₁₀: 1.79 lb/hr, CO: 250 ppmv @ 15% O₂ and 11.06 lb/hr, or VOC: 0.23 lb/hr. [District NSR Rule, District Rule 4703, 5.1.2 and 5.2, and 40 CFR 60.332(c)] Federally Enforceable Through Title V Permit
7. Gas turbine engine with duct burner off emission rates shall not exceed any of the following: NOx (as NO₂): 9 ppmv @ 15% O₂ and 0.45 lb/hr, SOx (as SO₂): 0.38 lb/hr, PM₁₀: 1.75 lb/hr, CO: 250 ppmv @ 15% O₂ and 7.77 lb/hr, or VOC: 0.20 lb/hr. [District NSR Rule, District Rule 4703, 5.1.2 and 5.2, and 40 CFR 60.332(c)] Federally Enforceable Through Title V Permit
8. The ammonia (NH₃) emissions from the exhaust of the SCR system serving this gas turbine shall not exceed 20 ppmvd @ 15% O₂. [District Rule 4102]
9. Permittee shall maintain accurate records of weekly fuel gas sulfur content (as H₂S) and shall make such records available for District inspection for five years. Draeger tubes may be utilized to satisfy this monitoring requirement. [District NSR Rule and Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Permittee shall maintain accurate daily records of total gas consumed in S-1543-5, '6, and '7, and such records shall be made readily available for District inspection upon request for a period of five years. [District NSR Rule and Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Compliance with NO_x, CO, and NH₃ emission limits shall be demonstrated annually by District witnessed sample collection by independent laboratory. If duct burner is operated intermittently, compliance shall be demonstrated with duct burner both on and off. [District Rule 4703, 6.3.1 and 6.3.3] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 5.0, 6.0, and 7.1] Federally Enforceable Through Title V Permit
13. The following methods shall be used for testing required by this permit: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or 10B or ARB Method 100, Stack gas Oxygen - EPA Method 3 or 3A or ARB Method 100, SO_x (lb/MMBtu) - ARB Method 100 or EPA Method 6 or fuel gas sulfur content analysis and EPA Method 19, Fuel gas sulfur content - ASTM D3246 or double GC for H₂S and Mercaptans, Fuel gas hhv - ASTM D1826 or D1945 in conjunction with ASTM D3588, Ammonia slip - BAAQMD method ST-1B. [District Rules 1081; 40 CFR 60.8(a); and 4703, 6.4] Federally Enforceable Through Title V Permit
14. The permittee shall monitor and record the stack concentration of NO_x, CO, NH₃ and O₂ at least once during each month in which source testing is not performed. NO_x, CO and O₂ monitoring shall be conducted utilizing a portable analyzer that meets District specifications. NH₃ monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless it has been performed within the last month. [District Rule 4703]
15. If the NO_x, CO or NH₃ concentrations, as measured by the portable analyzer or the District approved ammonia monitoring equipment, exceed the permitted levels the permittee shall return the emissions to compliant levels as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer or the ammonia monitoring equipment continue to show emission limit violations after 1 hour of operation following detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation that is subject to enforcement action has occurred. 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 4703]
16. All NO_x, CO, O₂ and ammonia emission readings shall be taken with the unit operating at conditions representative of normal operation or under the conditions specified in the Permit to Operate. The NO_x, CO and O₂ analyzer as well as the NH₃ emission monitoring equipment shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Analyzer 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 readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4703]
17. Ammonia emission readings shall be conducted at the time the NO_x, CO and O₂ readings are taken. The readings shall be converted to ppmvd @ 15% O₂. [District Rule 4703]
18. The permittee shall maintain records of: (1) the date and time of NO_x, CO, NH₃ and O₂ measurements, (2) the O₂ concentration in percent by volume and the measured NO_x, CO and NH₃ concentrations corrected to 15% O₂, (3) make and model of the portable analyzer, (4) portable analyzer calibration records, (5) the method of determining the NH₃ emission concentration, and (6) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rule 4703]
19. This unit shall be fired exclusively on natural gas which has a sulfur content of less than or equal to 0.015% by weight (75 ppmv as S). [40 CFR 60.333(b); District Rule 4801, 3.1; and Kern County Rule 407] 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.

20. If this unit is not fired on natural gas certified by the supplier to have a sulfur content (as S) not exceeding 0.015% by weight, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
21. If this unit is not fired on supplier-certified natural gas, the operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(j)(2)] Federally Enforceable Through Title V Permit
22. If this unit is not fired on supplier-certified natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 4084 or D 3246 or double GC for H₂S and mercaptans. [40 CFR 60.335(b)(10)] Federally Enforceable Through Title V Permit
23. If this unit is fired on supplier-certified natural gas, then copies of fuel certifications (or specifications) and natural gas bills shall be maintained on file. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Permittee shall maintain a record of the date of initial operation for at least 5 years. [District Rule 4703]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-6-12

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

13.6 MMBTU/HR GAS FIRED SOLAR SATURN GAS TURBINE ENGINE/COMPRESSOR WITH GAS FIRED 5.9 MMBTU/HR DUCT BURNER DRIVING GAS COMPRESSOR SERVED BY CATASTAK TM SELECTIVE CATALYST REDUCTION (SCR) SYSTEM - OPERATION B

PERMIT UNIT REQUIREMENTS

1. Operation shall include fuel gas piping from inlet scrubber MS-101 and inlet water knockout vessel MS-102, and compressor discharge piping to knockout vessel MS-301. [District Rule 2010, 4.0] Federally Enforceable Through Title V Permit
2. Fugitive volatile organic compound (VOC) emission sources shall be inspected, repaired, and maintained such that the total stationary source VOC emission rate does not exceed the stationary source limit specified in permit S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Fuel gas sulfur content shall not exceed 75 ppm by volume calculated as sulfur. [District NSR Rule and District Rule 4801, 3.1] Federally Enforceable Through Title V Permit
4. "Startup" and "shutdown" of gas turbine engine, defined in 40CFR 60.2, shall not exceed a time period of two hours for each occurrence. [District Rules 2080, 3.0 and 4703, 3.25] Federally Enforceable Through Title V Permit
5. Total gas consumption rate for gas turbine engine/compressor and duct burner shall not exceed 468 MMBtu/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Total gas consumption rate for gas turbine engine/compressors S-1543-5 and S-1543-6 and waste gas flare S-1543-7 shall not exceed 1,601,176 scf/day. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Gas turbine engine with duct burner on emission rates shall not exceed any of the following: PM10: 1.83 lb/hr, SO_x (as SO₂): 0.38 lb/hr, NO_x (as NO₂): 50 ppmv @ 15% O₂ and 4.44 lb/hr, VOC: 0.31 lb/hr, or CO: 250 ppmv @ 15% O₂ and 11.14 lb/hr. [District NSR Rule, District Rule 4703, 5.1.2 and 5.2, and 40 CFR 60.332(c)] Federally Enforceable Through Title V Permit
8. Gas turbine engine with duct burner off emission rates shall not exceed any of the following: PM10: 1.75 lb/hr, SO_x (as SO₂): 0.38 lb/hr, NO_x (as NO₂): 50 ppmv @ 15% O₂ and 3.61 lb/hr, VOC: 0.20 lb/hr, or CO: 250 ppmv @ 15% O₂ and 7.77 lb/hr. [District NSR Rule, District Rule 4703, 5.1.2 and 5.2, and 40 CFR 60.332(c)] Federally Enforceable Through Title V Permit
9. Permittee shall maintain accurate records of weekly fuel gas sulfur content (as H₂S) and shall make such records available for District inspection for five years. Draeger tubes may be utilized to satisfy this monitoring requirement. [District NSR Rule and Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Permittee shall maintain accurate daily records of total gas consumed in S-1543-5, '6, and '7, and such records shall be made readily available for District inspection upon request for a period of five years. [District NSR Rule and Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Compliance with NO_x and CO emission limits shall be demonstrated annually by District witnessed sample collection by independent laboratory. If duct burner is operated intermittently, compliance shall be demonstrated with duct burner both on and off. [District Rule 4703, 6.3.1 and 6.3.3] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 5.0, 6.0, and 7.1] Federally Enforceable Through Title V Permit
13. The following methods shall be used for testing required by this permit: NO_x (ppmv) - EPA Method 7E or ARB Method 100, NO_x (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or 10B or ARB Method 100, Stack gas Oxygen - EPA Method 3 or 3A or ARB Method 100, SO_x (lb/MMBtu) - ARB Method 100 or EPA Method 6 or fuel gas sulfur content analysis and EPA Method 19, Fuel gas sulfur content - ASTM D3246 or double GC for H₂S and Mercaptans, Fuel gas hhv - ASTM D1826 or D1945 in conjunction with ASTM D3588. [District Rules 1081; 40 CFR 60.8(a); and 4703, 6.4] Federally Enforceable Through Title V Permit
14. This unit shall be fired exclusively on natural gas which has a sulfur content of less than or equal to 0.015% by weight (75 ppmv as S). [40 CFR 60.333(b); District Rule 4801, 3.1; and Kern County Rule 407] Federally Enforceable Through Title V Permit
15. If this unit is not fired on natural gas certified by the supplier to have a sulfur content (as S) not exceeding 0.015% by weight, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
16. If this unit is not fired on supplier-certified natural gas, the operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(j)(2)] Federally Enforceable Through Title V Permit
17. If this unit is not fired on supplier-certified natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 4084 or D 3246 or double GC for H₂S and mercaptans. [40 CFR 60.335(b)(10)] Federally Enforceable Through Title V Permit
18. If this unit is fired on supplier-certified natural gas, then copies of all fuel certifications and natural gas bills shall be maintained on file. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-7-11

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

2,500 MMBTU/HR AIR-ASSISTED FLARE WITH VAPOR KNOCKOUT TANK MS-701A AND B, PILOT GAS SCRUBBER MS-705, AND VENT HEADER DISCHARGING TO FLARE

PERMIT UNIT REQUIREMENTS

1. Flare system shall also be equipped with relief headers discharging into KO tanks and purge gas supply piping from scrubber MS-103 to relief headers. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Condensate collected in KO tanks and scrubber shall be piped to closed drain blowdown vessel MS-710. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Except during breakdown and emergency events, sulfur content of flare pilot fuel gas and flared gas shall not exceed 75 ppm by volume calculated as sulfur. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Total gas consumption rate for gas turbine engine/compressors S-1543-5 and S-1543-6 and flare S-1543-7 shall not exceed 1,601,176 scf/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Operation of the flare for other than as allowed by the total gas consumption rate limit, shall be limited to emergency use and breakdowns as defined in District Rule 1100 (amended December 17, 1992). [District NSR Rule and Rule 1100, 3.1 and Kern County Rule 111] Federally Enforceable Through Title V Permit
6. Operation of flare for other than maintenance and testing, and as allowed by the total gas consumption limit shall be limited to unforeseen electrical power outages, breakdowns as defined in District Rule 1100 (amended December 17, 1992), 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) does not exceed 24 hours duration; 2) is not due to neglect or disregard of air pollution laws or rules; 3) is not intentional or the result of negligence; 4) is not due to improper maintenance; 5) does not constitute a nuisance; and 6) is not a recurrent breakdown of the same equipment. [District NSR Rule] Federally Enforceable Through Title V Permit
7. 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 the total gas consumption limit is exceeded unless the owner or operator demonstrates to the District's satisfaction that a longer notification period was necessary. [District Rule 1070, 3.0] Federally Enforceable Through Title V Permit
8. 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, 3.0] Federally Enforceable Through Title V Permit
9. Permittee shall maintain accurate daily records of the amounts of flared gas during emergency operation and under normal operation for a period of five years and make such records readily available for District inspection upon request. [District Rules 1070, 4.0, 2520, 9.4.2, and 4311, 6.2.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Permittee shall maintain accurate weekly records of pilot and waste gas sulfur content and shall make such records available for District inspection for five years. Draeger tubes may be utilized to satisfy this monitoring requirement. [District NSR Rule; Rules 1070, 4.0, 2520, 9.4.2, and 4311, 6.2.3] Federally Enforceable Through Title V Permit
11. Permittee shall maintain accurate daily records of total gas consumed in S-1543-5, '6, and '7, and such records shall be made readily available for District inspection upon request for a period of five years. [District NSR Rule; Rules 1070, 4.0, 2520, 9.4.2, and 4311, 6.2.3] Federally Enforceable Through Title V Permit
12. The sulfur content of the gas being flared shall be determined using ASTM D 1072, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
13. Flare shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [District Rule 4311, 5.6; 40 CFR 60.18(c)(1) and 40 CFR 63.11(b)(4)] Federally Enforceable Through Title V Permit
14. A trained observer, as defined in EPA Method 22, shall check visible emissions at least once a year for a period of two hours. A record containing the results of these observations shall be maintained, which includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rules 2520, 9.4.2 and 4311, 5.6 and 40 CFR 60.18(f)(1)] Federally Enforceable Through Title V Permit
15. The operator shall maintain all records of required monitoring data and support information for District inspection at any time. [District Rule 2520, 9.5.2 and Rule 4311, 5.6] Federally Enforceable Through Title V Permit
16. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Flare shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater. [District Rule 4311, 5.6 and 40 CFR 60.18 (c)(3)] Federally Enforceable Through Title V Permit
18. The net heating value of the gas being combusted in a flare shall be determined annually, pursuant to 40 CFR 60.18(f)(3) and using EPA Method 18 and ASTM D1946. [District Rule 4311, 5.6 and 40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
19. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5)] Federally Enforceable Through Title V Permit
20. The actual exit velocity of a flare shall be determined by dividing the volumetric flow rate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [District Rule 4311, 5.6 and 40 CFR 60.18 (f)(4)] Federally Enforceable Through Title V Permit
21. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. This requirement does not apply during required maintenance of the flare. [District Rule 4311, 5.6; 40 CFR 60.18 (c)(2); 40 CFR 60.18 (e); and 40 CFR 60.18 (f)(2)] Federally Enforceable Through Title V Permit
22. Fuel gas sulfur content shall not exceed 75 ppm by volume calculated as sulfur. [District NSR Rule; District Rule 4801, 3.1; and Kern County Rule 407] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-8-7

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON LPG AND NATURAL GAS TRUCK LOADING OPERATION INCLUDING PROPANE, NATURAL GASOLINE, AND ISOBUTANE LOADING STATIONS AND SIX 30 HP LOADING PUMPS - TWO FOR PROPANE (P-801A AND B), TWO FOR ISOBUTANE (P-803A AND B), AND TWO FOR NATURAL GAS (P-804A AND B)

PERMIT UNIT REQUIREMENTS

1. Loading rack shall include two loading stations and each loading station shall include three loading couplers and may include one loading hose for each loading coupler, one vapor return hose with return coupler, and pressurized nitrogen connector purge system. [District NSR Rule and 4624, 5.4] Federally Enforceable Through Title V Permit
2. Operation shall include loadout lines, vapor return lines and components (including pumps PP-803A and B) serving butane/natural gasoline tanks, MS-803A and B, MS 804A, B, C, and D. [District NSR Rule and 4624, 5.4] Federally Enforceable Through Title V Permit
3. Operation shall include loadout lines, vapor return lines and components (including pumps PP-805A and B) serving butane/natural gasoline tanks, MS-805A, B, C, and D. [District NSR Rule and 4624, 5.4] Federally Enforceable Through Title V Permit
4. Operation shall include loadout lines, vapor return lines and components (including pumps PP-801A and B) serving permit exempt propane pressurized tanks. [District NSR Rule; District Rule 4624, 5.4; and Kern County Rule 413] Federally Enforceable Through Title V Permit
5. Truck loading operation shall include vapor return lines to the associated storage vessels. [District NSR Rule; District Rule 4624, 5.4; and Kern County Rule 413] Federally Enforceable Through Title V Permit
6. Truck loading operation shall include relief drain header discharging into product storage area drain tank MS-805. [District NSR Rule] Federally Enforceable Through Title V Permit
7. When loading, trucks shall vent only to vapor return hoses. [District NSR Rule; District Rule 4624, 5.1.2; and Kern County Rule 413] Federally Enforceable Through Title V Permit
8. All centrifugal pumps shall be equipped with mechanical seals with seal pressure alarms set at the seal failure pressure setting. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Fugitive volatile organic compound (VOC) emission rate shall not exceed the limit specified in permit S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Liquid loading and vapor return couplers shall minimize leaks to the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Spare loading pumps shall not be operated while main pumps are in operation. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Loading connectors shall establish a gas-tight seal with delivery vessels prior to commencing loading. [District NSR Rule; 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.

13. Records of inspections, repairs and maintenance of fugitive VOC sources shall be kept and made readily available for District inspection. [District Rule 4624, 6.1 and Kern County Rule 413] Federally Enforceable Through Title V Permit
14. 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 loaded. Compliance with Rule 4624 emission limits may be demonstrated by conducting component inspections pursuant to Rule 4624, Section 5.9. [District Rule 4624, 5.1.1 and Kern County Rule 413] Federally Enforceable Through Title V Permit
15. All delivery tanks which previously contained organic liquids, including gasoline, with a TVP greater than 1.5 psia at loading conditions shall be filled only at Class 1 loading facilities using bottom loading equipment with a vapor collection and control system operating such that VOC emissions do not exceed 0.08 lb/1000 gallons loaded; or Class 2 loading facilities equipped with a system to control at least 95% of VOC displaced. [District Rule 4624, 5.3 and Kern County Rule 413] Federally Enforceable Through Title V Permit
16. 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 and Kern County Rule 413] Federally Enforceable Through Title V Permit
17. 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
18. During the loading of organic liquids, the operator shall perform and record the results of monthly 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, 9.4.2] Federally Enforceable Through Title V Permit
19. 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, 9.4.2] Federally Enforceable Through Title V Permit
20. 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, 9.4.2] Federally Enforceable Through Title V Permit
21. Each detected leak shall be repaired within 15 calendar days of detection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. 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, 9.5.2] Federally Enforceable Through Title V Permit
23. Analysis of halogenated exempt compounds shall be by ARB Method 432. [District Rule 4624, 6.2.1 and Kern County Rule 413] Federally Enforceable Through Title V Permit
24. Loading of a delivery vessel shall discontinue if its pressure relief valve opens. Corrective action shall be taken should this condition occur. [District Rule 2520, 9.1] 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.

25. 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, 9.5.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-9-3

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE/BUTANE STORAGE TANK MS-804A

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-10-3

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE/BUTANE STORAGE TANK MS-804B

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-11-3

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE/BUTANE STORAGE TANK MS-804C

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-12-3

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE/BUTANE STORAGE TANK MS-804D

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-13-5

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

OIL-WATER SEPARATION OPERATION INCLUDING CLOSED DRAIN BLOWDOWN VESSEL MS-710, PUMP PP-710, WASTEWATER PUMP PP-806, PRODUCT STORAGE AREA DRAIN TANK MS-805, AND DRAIN PUMP PP-805

PERMIT UNIT REQUIREMENTS

1. Oil-water separation operation shall include drain headers from Permit No. S-1543-8 to tank MS-805 and from Permit Nos. S-1543-4, S-1543-5, S-1543-6, and S-1543-7 to drain vessel MS-710. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Closed drain blowdown vessel MS-710 shall control at least 99% of all volatile organic compound (VOC) emissions from wastewater. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Slop oil recovered from drain vessel MS-710 shall be piped to light oil dehydration facility. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Fugitive volatile organic compound (VOC) emission rate shall not exceed the limit specified in permit S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-18-3

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

1,500 HP ELECTRIC MOTOR DRIVEN COOPER-BESSEMER MODEL FM-4 INLET GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. Volatile organic compound (VOC) emissions shall not exceed 0.96 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-25-5

EXPIRATION DATE: 05/31/2016

SECTION: SE32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

800 BHP SUPERIOR MODEL #8G 825 NATURAL GAS-FIRED IC ENGINE WITH THREE-WAY CATALYST, AIR/FUEL RATIO CONTROLLER, AND POSITIVE CRANKCASE VENTILATION SYSTEM POWERING A GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO₂. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
3. The engine shall only burn natural gas with fuel gas sulfur concentration (as H₂S) not exceeding 0.88 grains/100 dscf. [District NSR Rule and District Rule 4801, 3.1] Federally Enforceable Through Title V Permit
4. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.9 lb/VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions calculations shall be performed using EPA publication 453/R-95-017, Table 2-4 emission factors. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all fugitive components installed with this engine compressor and corresponding VOC emissions calculations to verify compliance with fugitive VOC emission limit. [District NSR Rule] Federally Enforceable Through Title V Permit
7. When this unit is not operated (dormant for Rule 4702) the fuel line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
8. A source test to demonstrate compliance with NO_x, CO and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
9. Upon seven days written notice to the District this engine may be designated as a dormant emissions unit or an active emissions unit. [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.] Federally Enforceable Through Title V Permit
12. Emissions from this IC engine shall not exceed any of the following limits: 5 ppmvd NO_x @ 15% O₂ (equivalent to 0.071 g-NO_x/hp-hr), 0.003 g-PM₁₀/hp-hr, 70 ppmvd CO @ 15% O₂ (equivalent to 0.603 g-CO/hp-hr), or 14 ppmvd VOC @ 15% O₂ (equivalent to 0.069 g-VOC/hp-hr). [District NSR Rule and District Rule 4702, 5.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702, 5.6.1, 6.5.1, 6.5.2] Federally Enforceable Through Title V Permit
14. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable 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, 5.6.1, 6.5.3, 6.5.4] Federally Enforceable Through Title V Permit
15. 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, 5.6.1, 6.5.6] Federally Enforceable Through Title V Permit
16. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be measured not less than once every 24 months. [District Rule 4702, 6.3.1] Federally Enforceable Through Title V Permit
17. 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, 6.3.2] Federally Enforceable Through Title V Permit
18. 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_x, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702, 6.3.2] Federally Enforceable Through Title V Permit
19. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Methods 18, 25A or 25B, or ARB Method 100. [District Rules 1081 and 4702, 6.4] Federally Enforceable Through Title V Permit
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
22. The sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or GC for H₂S and mercaptans. [District NSR Rule] Federally Enforceable Through Title V Permit
23. The sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District 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.

24. The permittee shall monitor and record the catalyst inlet and outlet temperatures 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
25. The catalyst temperature differential (Tempout - Tempin) shall be not be less than 25 degrees F. The exhaust temperature (pre-catalytic converter) shall be between 750 degrees F and 1350 degrees F. [40 CFR Part 64] Federally Enforceable Through Title V Permit
26. If the catalyst inlet and outlet temperatures, 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
27. 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
28. 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
29. 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
30. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 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, 5.6.1, 6.5.7] Federally Enforceable Through Title V Permit
32. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702, 6.2] Federally Enforceable Through Title V Permit
33. 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, 6.5.8] Federally Enforceable Through Title V Permit
34. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2] 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-1543-26-4

EXPIRATION DATE: 05/31/2016

SECTION: SE32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

800 BHP SUPERIOR MODEL #8G-825 NATURAL GAS-FIRED IC ENGINE WITH THREE-WAY CATALYST, AIR/FUEL RATIO CONTROLLER, AND POSITIVE CRANKCASE VENTILATION SYSTEM POWERING A GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Sulfur compound emissions shall not exceed 2000 ppmv as SO₂. [District Rule 4801] Federally Enforceable Through Title V Permit
4. The engine shall only burn natural gas with fuel gas sulfur concentration (as H₂S) not exceeding 0.88 grains/100 dscf. [District NSR Rule and District Rule 4801, 3.1] Federally Enforceable Through Title V Permit
5. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.9 lb/VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Fugitive VOC emissions calculations shall be performed using EPA publication 453/R-95-017, Table 2-4 emission factors. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Permittee shall maintain a current listing of all fugitive components installed with this engine compressor and corresponding VOC emissions calculations to verify compliance with fugitive VOC emission limit. [District NSR Rule] Federally Enforceable Through Title V Permit
8. When this unit is not operated (dormant for Rule 4702) the fuel line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
9. A source test to demonstrate compliance with NO_x, CO and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
10. Upon seven days written notice to the District this engine may be designated as a dormant emissions unit or an active emissions unit. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702, 5.6.6] 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 Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Emissions from this IC engine shall not exceed any of the following limits: 5 ppmvd NO_x @ 15% O₂ (equivalent to 0.071 g-NO_x/hp-hr), 0.0048 g-SO_x/hp-hr, 0.003 g-PM₁₀/hp-hr, 70 ppmvd CO @ 15% O₂ (equivalent to 0.603 g-CO/hp-hr), or 14 ppmvd VOC @ 15% O₂ (equivalent to 0.069 g-VOC/hp-hr). [District Rules 2201 and 4702, 5.1] Federally Enforceable Through Title V Permit
14. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702, 5.6.1, 6.5.1, 6.5.2] Federally Enforceable Through Title V Permit
15. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable 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, 5.6.1, 6.5.3, 6.5.4] Federally Enforceable Through Title V Permit
16. 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, 5.6.1, 6.5.6] Federally Enforceable Through Title V Permit
17. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be measured not less than once every 24 months. [District Rule 4702, 6.3.1] Federally Enforceable Through Title V Permit
18. 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, 6.3.2] Federally Enforceable Through Title V Permit
19. 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_x, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702, 6.3.2] Federally Enforceable Through Title V Permit
20. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, ARB Method 100, or EPA Method 18 referenced as methane. [District Rules 1081 4702, 6.4] Federally Enforceable Through Title V Permit
21. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
22. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or GC for H₂S and mercaptans. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. The sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2201] Federally Enforceable Through Title V Permit
25. The permittee shall monitor and record the catalyst inlet and outlet temperatures 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 catalyst temperature differential (Tempout - Tempin) shall be not be less than 25 degrees F. The exhaust temperature (pre-catalytic converter) shall be between 750 degrees F and 1350 degrees F. [40 CFR Part 64] Federally Enforceable Through Title V Permit
27. If the catalyst inlet and outlet temperatures, 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. [40 CFR Part 64] Federally Enforceable Through Title V Permit
32. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 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, 5.6.1, 6.5.7] Federally Enforceable Through Title V Permit
33. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702, 6.2] Federally Enforceable Through Title V Permit
34. 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, 6.5.8] Federally Enforceable Through Title V Permit
35. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2] 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-1543-27-4

EXPIRATION DATE: 05/31/2016

SECTION: SE32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

800 BHP SUPERIOR MODEL 8G 825 NATURAL GAS-FIRED IC ENGINE WITH THREE-WAY CATALYST, AIR/FUEL RATIO CONTROLLER, AND POSITIVE CRANKCASE VENTILATION SYSTEM DRIVING A GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The engine shall only burn natural gas with fuel gas sulfur concentration (as H₂S) not exceeding 0.88 grains/100 dscf. [District NSR Rule and District Rule 4801, 3.1] Federally Enforceable Through Title V Permit
3. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.9 lb/VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Fugitive VOC emissions calculations shall be performed using EPA publication 453/R-95-017, Table 2-4 emission factors. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Permittee shall maintain a current listing of all fugitive components installed with this engine compressor and corresponding VOC emissions calculations to verify compliance with fugitive VOC emission limit. [District NSR Rule] Federally Enforceable Through Title V Permit
6. When this unit is not operated (dormant for Rule 4702) the fuel line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
7. A source test to demonstrate compliance with NO_x, CO and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
8. Upon seven days written notice to the District this engine may be designated as a dormant emissions unit or an active emissions unit. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.] Federally Enforceable Through Title V Permit
11. Emissions from this IC engine shall not exceed any of the following limits: 5 ppmvd NO_x @ 15% O₂ (equivalent to 0.071 g-NO_x/hp-hr), 0.0048 g-SO_x/hp-hr, 0.003 g-PM₁₀/hp-hr, 70 ppmvd CO @ 15% O₂ (equivalent to 0.603 g-CO/hp-hr), or 14 ppmvd VOC @ 15% O₂ (equivalent to 0.069 g-VOC/hp-hr). [District NSR Rule and 4702, 5.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702, 5.6.1, 6.5.1, 6.5.2] Federally Enforceable Through Title V Permit
13. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable 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, 5.6.1, 6.5.3, 6.5.4] Federally Enforceable Through Title V Permit
14. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702, 5.6.1, 6.5.6] Federally Enforceable Through Title V Permit
15. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be measured not less than once every 24 months. [District Rule 4702, 6.3.1] Federally Enforceable Through Title V Permit
16. 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, 6.3.2] Federally Enforceable Through Title V Permit
17. 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_x, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702, 6.3.2] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B or 18, or ARB Method 100. [District Rules 1081 and 4702, 6.4] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. 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
21. The sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or GC for H₂S and mercaptans. [District NSR Rule] Federally Enforceable Through Title V Permit
22. The sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District 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.

23. The permittee shall monitor and record the catalyst inlet and outlet temperatures 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
24. The catalyst temperature differential (Tempout - Tempin) shall be not be less than 25 degrees F. The exhaust temperature (pre-catalytic converter) shall be between 750 degrees F and 1350 degrees F. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. If the catalyst inlet and outlet temperatures, 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
26. 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
27. 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
28. 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
29. The permittee shall maintain daily records of the catalyst inlet and outlet temperatures. [40 CFR Part 64] Federally Enforceable Through Title V Permit
30. 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, 5.6.1, 6.5.7] Federally Enforceable Through Title V Permit
31. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702, 6.2] Federally Enforceable Through Title V Permit
32. 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, 6.5.8] Federally Enforceable Through Title V Permit
33. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2] 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-1543-33-9

EXPIRATION DATE: 05/31/2016

SECTION: SE32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

3,600 MMBTU/HR KALDAIR INDAIR LIMITED USE PRODUCED GAS FLARE WITH COANDA EFFECT FLARE TIP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1/4 or 5% opacity. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Flare shall be equipped with recording, volumetric flow meters that shall be used to individually monitor and record the volumes of produced gas, pilot gas and sweep gas combusted in this unit. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit
4. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare. The pilot need not be present when the flare is isolated for required flare maintenance. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
5. Flare shall be equipped with a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device capable of continuously detecting at least one pilot flame or the flare flame is present. The flame detection device shall be kept operational at all times except during flare maintenance and unforeseen or necessary planned power outages. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit
6. The sulfur content of produced gas combusted in the flare shall not exceed 1,000 ppmv. Sulfur content of pilot gas and sweep gas shall not exceed 15 ppmv (as H₂S). [District Rule 2201, District Rule 4801, 3.1, and Kern County Rule 407] Federally Enforceable Through Title V Permit
7. Maximum amount of gas combusted shall not exceed 60,000 MMBtu/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Maximum amount of gas combusted shall not exceed 90,000 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from the flare shall not exceed any of the following limits (based on total gas combusted): NO_x (as NO₂): 0.068 lb/MMBtu; SO_x (as SO₂): 0.14 lb/MMBtu; PM₁₀: 0.008 lb/MMBtu; CO: 0.37 lb/MMBtu; or VOC: 0.063 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Total quantity of pilot gas and sweep gas combusted in the flare shall not exceed 15 MMBtu/day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Permittee shall measure the sulfur content of the produced gas combusted in the flare and the H₂S concentration of the pilot/sweep gas by District witnessed, or authorized, sample collection by ARB certified testing laboratory annually. [District Rules 1081, 7.2 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The sulfur content of the produced gas flared shall be determined using ASTM test methods D-1072, D-3246, D-6228, or double GC for H₂S and Mercaptans. H₂S concentration (ppmv) of the pilot/sweep gas shall be determined using ASTM test methods D-1072 or D-4084, using Draeger tube, or by gas supplier test data consistent with the natural gas fuel sulfur content test method listed in this permit. [District Rules 1081 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
13. A trained observer, as defined in EPA Method 22, shall check visible emissions at least once a year for a period of 15 minutes. If visible emissions are detected at any time during this period, the observation period shall be extended to two hours. A record containing the results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
14. The higher heating value of the pilot gas, sweep gas, and flared gas shall be monitored at least quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Measured heating value and quantity of gas flared shall be used to determine compliance with heat input limits. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The operator shall maintain all records of required monitoring data and support information for District inspection at any time. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
17. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
18. Permittee shall maintain accurate records of the daily quantities of produced gas and pilot and sweep gas combusted in the flare. [District Rules 2201 and Rules 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-34-2

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE STORAGE TANK MS-805A

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-35-2

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE STORAGE TANK MS-805B

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-36-2

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE STORAGE TANK MS-805C

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-37-2

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

60,000 GALLON NATURAL GASOLINE STORAGE TANK MS-805D

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-39-2

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

15,000 GALLON NATURAL GASOLINE/BUTANE STORAGE TANK MS-803A

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-40-2

EXPIRATION DATE: 05/31/2016

SECTION: 32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

15,000 GALLON NATURAL GASOLINE/BUTANE STORAGE TANK MS-803B

PERMIT UNIT REQUIREMENTS

1. Truck loading from this tank shall only be through the truck loading operation described in Permit No. S-1543-8. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Tank draining shall be through the closed drain headers described in Permit No. S-1543-13. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Total stationary source fugitive component VOC emissions shall not exceed limit listed on S-1543-4. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of inspections, repairs, and maintenance and shall make such records available for District inspection for five years. [District Rules 1070, 4.0 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-41-2

EXPIRATION DATE: 05/31/2016

EQUIPMENT DESCRIPTION:

VARIOUS UNSPECIFIED LOCATIONS IN SOUTH BELRIDGE OIL FIELD, HYDROGEN SULFIDE (H₂S) SCAVENGER CHEMICAL STORAGE AND INJECTION OPERATION UTILIZING UP TO 15 CHEMICAL STORAGE TANKS (CAPACITY OF 500 GALLONS OR LESS) EACH EQUIPPED WITH A CATCH BASIN AND ASSOCIATED COMPONENTS INCLUDING LIQUID TRANSFER PUMP(S), VALVES, FLANGES, THREADED CONNECTIONS, FLEXIBLE-PIPING, AND STINGER-TYPE INJECTION FITTINGS

PERMIT UNIT REQUIREMENTS

1. Permittee shall notify the SJVUAPCD of each location at which an H₂S scavenger chemical storage and injection operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Chemical storage and injection operations shall not be located within 1000 feet of a school. [District Rule 4102]
3. Each chemical storage tank shall have a maximum rated capacity of 500 gallons or less and up to eight injection points. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The maximum throughput of each chemical storage tank shall not exceed 500 gallons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. True vapor pressure of materials stored in each chemical tank shall not exceed 0.25 psia. [District NSR Rule] Federally Enforceable Through Title V Permit
6. VOC emissions from the H₂S scavenger injection equipment shall be less than 0.5 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Permittee shall maintain accurate fugitive component counts and resultant emissions calculated using Table 2-4 of U.S. EPA Publication 453/R-95-017. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Accurate records of the dates and amounts of chemical deliveries for each chemical injection site and fugitive component counts shall be retained and made available for District inspection upon request for a period of 5 years. [District NSR Rule and Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1543-43-2

EXPIRATION DATE: 05/31/2016

SECTION: SE32 **TOWNSHIP:** 28S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

100 BBL METHANOL TANK MT-703 (SECTION 32 GAS PLANT)

PERMIT UNIT REQUIREMENTS

1. This tank shall be equipped with a pressure-vacuum relief valve set to at least + 1.00 psig and - 0.06 psig, permanently labeled with the operating pressure settings, properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve's set pressure. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. This tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This tank shall be in a leak-free condition. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Only operators who elect to participate in the voluntary tank preventive inspection and maintenance, and tank interior cleaning program (program) shall be allowed to use the provisions specified in Tables 3 to 5 and Section 5.7.5 (of Rule 4623). When using Tables 3 to 5 and Section 5.7.5 provisions, operators shall perform the procedures as expeditiously as practicable and minimize emissions to the maximum extent practicable. To participate in this program, the operator shall comply with the requirements of Sections 5.7.1 through 5.7.4. [District Rule 4623] Federally Enforceable Through Title V Permit
5. This tank shall only store methanol. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
7. Throughput of methanol shall not exceed 95.9 gallons per day or 35,000 gallons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Emissions from this tank shall not exceed 0.5 lb-VOC per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
10. Permittee shall maintain monthly records of average methanol throughput and shall keep accurate records of each organic liquid stored in the tank. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit

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

Public Comments/District Response

Aera Energy LLC (Aera) submitted public comments regarding the District's analysis and preliminary decision. A copy of the August 3, 2010 email containing these comments is available at the District.

PUBLIC COMMENT

Permit S-1543-0-3

Condition 57: 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 Enforced Through Title V Permit

40 CFR 60.482-7(c)(1), on which the above condition is based, has been revised by adding paragraph (ii):

(ii) As an alternative to monitoring all of the valves in the first month of a quarter, an owner or operator may elect to subdivide the process unit into 2 or 3 subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months. The owner or operator must keep records of the valves assigned to each subgroup.

Aera requests to add the following condition immediately following condition # 57:

As an alternative to monitoring all valves in gas/vapor or light liquid service in the first month of a quarter, permittee may elect to subdivide the process unit into 2 or 3 subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months. Permittee must keep records of the valves assigned to each subgroup. [40 CFR 60.482-7(c)(1)(ii)] Federally Enforced Through Title V Permit

DISTRICT RESPONSE

The following condition was added to the permit:

As an alternative to monitoring all valves in gas/vapor or light liquid service in the first month of a quarter, permittee may elect to subdivide the process unit into 2 or 3 subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months. If a leak is subsequently detected, monitoring shall revert to monthly. Permittee must keep

records of the valves assigned to each subgroup. [40 CFR 60.482-7(c)(1)(ii)]
Federally Enforced Through Title V Permit

PUBLIC COMMENT

Permit Unit S-1543-4-21

Conditions 35 and 48: These conditions define a leak for equipment that utilizes polished rod stuffing boxes.

DISTRICT RESPONSE

The facility has stated that this permit unit does not utilize polished rod stuffing boxes. Conditions 35 and 48 were deleted.

PUBLIC COMMENT

Permit Unit S-1543-4-21

Condition 41: This condition defines a gas leak as stated in District Rule 4409:

"A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component"

Remove this condition or state it is supposed to define a major leak.

DISTRICT RESPONSE

Pursuant to Sections 3.20.1 and 3.20.2 of District Rule 4409, the terms major and minor only applies to liquid leaks. No changes were made to this condition.

PUBLIC COMMENT

Permit Unit S-1543-4-21

Condition 49: This condition should be deleted. Gas Plant Operations do not ever include light oil production wells.

DISTRICT RESPONSE

The condition is applicable to wells at a light crude oil facility or gas production facility. The facility has confirmed that there are no wells at the gas plant. The condition was removed from the permit.

PUBLIC COMMENT

Permit Unit S-1543-4-21

Condition 59: Clarify meaning of phrase "in service." Should it say "in VOC Service?"

DISTRICT RESPONSE

It is assumed that "in service" means "VOC service". The condition was changed to say "VOC service" for clarity.

PUBLIC COMMENT

Permit Unit S-1543-4-21

Aera did an applicability study back in 2002 that concluded that the Gas Plant was not subject to Subpart HH. Are you aware if anything has changed in the regulation that makes it a sure thing that HH applies to S-1543?

DISTRICT RESPONSE

Title 40 CFR Part 63, Subpart HH: Oil and Natural Gas Production Area Source Applicability

Major Source/Area Source

1. Ten tons of any single HAP or 25 tons of any combination of HAP (10/25) constitutes a major source.
2. All other sources are area sources.
3. Area sources of HAP are not required by Subpart HH to obtain a Title V permit, if the source is not otherwise subject to the Federal Operating Permit program.

Area Source Applicability - General

1. Area sources became subject to Subpart HH on January 3, 2007.

Since Subpart HH is applicable, conditions with the requirements of Subpart HH will remain on the permit.

PUBLIC COMMENT

Permit Units S-1543-5-12

Condition 24: Delete this condition. It was only applicable during initial implementation of the previous ATC.

DISTRICT RESPONSE

In addition to defining the duration of the "shakedown" period and NO_x emission limit for that period, the condition also specifies recordkeeping requirements. The condition was modified to remove the references to "shakedown" but retained the record keeping requirement.

PUBLIC COMMENT

Permit Unit S-1543-6-12

Description in draft permit did not reflect SCR.

DISTRICT RESPONSE

Current Title V operating permit S-1543-6-15 reflected SCR in the permit description. The equipment description on the renewed Title V operating permit was changed to reflect SCR.

PUBLIC COMMENT

Permit Units S-1543-8-7

Condition 14: Compliance with Rule 4624 emission limit of 0.08 lb VOC per 1,000 gallons may be demonstrated by conducting component inspections pursuant to Rule 4624, Section 5.9.

DISTRICT RESPONSE

The District agrees that compliance with the Rule emission limits can be demonstrated if inspections are performed in accordance with Rule 4624, Section 5.9. The language was added to the condition.

PUBLIC COMMENT

Permit Units S-1543-25-5, '-26-4, '-27-4

Several of the Permit Unit Requirements refer to acceptable methods to determine the sulfur content of the natural gas combusted in internal combustion engines at the Belridge Gas Plant. In some cases, ASTM method D 1072, D 3031, D 4084 or D 3246 and GC for H₂S and mercaptans are listed. In other cases, ASTM method D 1072, D 3031, D 4084, D 3246, or GC for H₂S and mercaptans are listed as well. The Permit Unit Requirements should be consistent so that one test for sulfur content will be representative for all applicable permit units.

DISTRICT RESPONSE

The sulfur testing requirements for all applicable permit units (Conditions 22, 23, and 21 of S-1543-25-5, '-26-4, and '-27-4 respectively) are revised for consistency and reads as follows: " The sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or GC for H₂S and mercaptans. [District NSR Rule]."

PUBLIC COMMENT

Permit Units S-1543-25-5, '-26-4, '27-4

Condition 25: The text "Unless otherwise specified in a Quality Improvement Plan," should be added because it provides flexibility in case a more appropriate temperature criteria is developed based on actual operating experience.

DISTRICT RESPONSE

The facility has the ability to modify the temperature criteria by submitting a minor modification application. There were no changes made to the condition.

PUBLIC COMMENT

Permit Unit S-1543-43-1

On June 28, 2010 Aera implemented ATC S-1543-43-1 which more appropriately addresses emissions and emission controls for a tank of this size and usage. Aera requests that the conditions from this ATC be incorporated into the Title V permit.

DISTRICT RESPONSE

The final decision for the minor modification for permit to operate S-1543-43-2 occurred on 12/7/2010. The permit will be included with the other facility permits when the renewal is finalized.