



JUN 10 2014

Lance Ericksen
Chevron USA Inc Lost Hills GP
P O Box 1392
Bakersfield, CA 93302

Re: Notice of Final Action - Minor Title V Permit Modification
District Facility # S-55
Project # S-1134592

Dear Mr. Ericksen:

The Air Pollution Control Officer has modified the Title V permit for Chevron USA Inc Lost Hills GP by incorporating S-55-13-7. The Authority to Construct is for the modification of a gas compression engine permit to lower its NOx emission limit from 25 to 11 ppm for compliance with Rule 4702.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on January 14, 2014. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

Arnaud Marjollet
Director of Permit Services

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Enclosures

cc: Gerardo C. Rios, EPA (w/enclosure) via email

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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 www.healthyliving.org

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-55-13-8

EXPIRATION DATE: 08/31/2016

SECTION: SW03 **TOWNSHIP:** 27S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA MODEL 7044GSI NATURAL GAS-FIRED IC ENGINE WITH DCL INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND A AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger and with an intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This IC engine shall be fired on Public Utility Commission (PUC) quality natural gas with a sulfur content not exceeding 1.0 grains/100 scf. [District Rules 2201, 4801] Federally Enforceable Through Title V Permit
4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District Rules 2201, 4001] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
6. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 lb VOC per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Emissions from the IC engine when operating under load shall not exceed any of the following limits: 11 ppmv-NOx @ 15% O₂, 30 ppmv-VOC @ 15% O₂, 70 ppmv-CO @ 15% O₂, 0.00285 lb-SO_x/MMBtu, or 10 lb-PM₁₀/MMscf. [District Rules 2201, 4702] Federally Enforceable Through Title V Permit
9. 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. Source testing emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x. [District Rules 4702, 2520] Federally Enforceable Through Title V Permit
10. Compliance demonstration (source testing) shall be by District witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
11. 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
12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. 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
14. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
15. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar 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] Federally Enforceable Through Title V Permit
16. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1-hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
17. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
18. 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] Federally Enforceable Through Title V Permit
19. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified in the Inspection and Maintenance (I & M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
20. 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 no later than 14 days after the change for approval. The date and time of the change to the I & M plan shall be recorded in the engine's operating log. For modifications, the revised I & M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I & M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
21. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. 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 25 or EPA Method 18 referenced as methane, fuel gas sulfur content - ASTM D 3246 or double GC for total sulfur content, and EPA Method 21 for fugitive components. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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23. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
24. 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 double GC for H₂S and mercaptans. [District Rule 2520] Federally Enforceable Through Title V Permit
25. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520] Federally Enforceable Through Title V Permit
26. The air/fuel ratio shall be operated to maintain the exhaust O₂ at a set point that has been demonstrated to result in compliance with the IC engines emission limits. The air/fuel ratio controller O₂ set point may be adjusted when IC engine's emissions are measured during inspections with a portable emission analyzer. [40 CFR 64] Federally Enforceable Through Title V Permit
27. The permittee shall inspect the air/fuel ratio controller on a daily basis to determine if an alarm signal exists. [40 CFR 64] Federally Enforceable Through Title V Permit
28. Upon discovery of an alarm signal from the air/fuel controller, the permittee shall adjust the IC engine operating parameters to such that an alarm condition no longer exists as soon as possible, but no longer than 8 hours after detection. If an alarm condition continues to exist after 8 hours, the permittee shall notify the District within the following 1 hour and shall measure IC emissions with a portable emissions analyzer to determine if the NO_x and CO emission limits have been exceeded. If the excursions are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 64] Federally Enforceable Through Title V Permit
29. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
30. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit
31. 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 64] Federally Enforceable Through Title V Permit
32. Permittee shall maintain an engine operating log, on a monthly basis, which includes the following information; total hours of operation, type and quantity of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance with Rule 4702. [District Rules 1070, 2520] Federally Enforceable Through Title V Permit
33. All records required by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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