



MAR 05 2014

Mr. Travis Wilke
Phillips 66 Pipeline Company
256 E. Polk Street
Coalinga, CA 93210

Re: Notice of Minor Title V Permit Modification
District Facility # S-1518
Project # S-1134783

Dear Mr. Wilke:

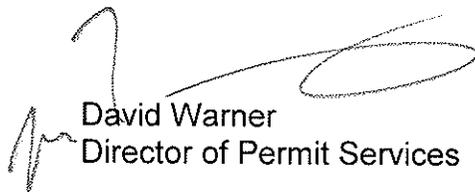
Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued S-1518-24-8 and '-25-8 into the Title V operating permit. Phillips 66 Pipeline Company proposes to reduce the allowable NOx emission rate for these permits for compliance with District Rule 4702.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued S-1518-24-8 and '-25-8, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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

TITLE V APPLICATION REVIEW

Minor Modification
Project #: S-1134783

Engineer: Dennis Roberts
Date: March 3, 2014

Facility Number: S-1518
Facility Name: Phillips 66 Pipeline Company
Mailing Address: 256 E. Polk St.
Coalinga, CA 93210

Contact Name: Travis Wilke
Phone: (562) 290-1502

Responsible Official: Travis Wilke
Title: WC Pipeline Division Manager

I. PROPOSAL

Phillips 66 Pipeline Company is proposing a Title V minor permit modification to incorporate the recently issued Authorities to Construct S-1518-24-8 and '-25-8 into the Title V operating permit. ATC's '-24-8 and '-25-8 reduce the allowable NOx emission rate to 11 ppmv for each of the respective units. The proposed modifications are being made for compliance with District Rule 4702.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

II. FACILITY LOCATION

14990 Hwy 46
Lost Hills, CA

III. EQUIPMENT DESCRIPTION

S-1518-24-9: 1,024 BHP WAUKESHA MODEL L-7042-G NATURAL GAS-FIRED IC ENGINE (#G8) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR-TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL-RAND CENTRIFUGAL PUMP

S-1518-24-9: 1,024 BHP WAUKESHA MODEL L-7042-G NATURAL GAS-FIRED IC ENGINE (#G9) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR-TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL-RAND CENTRIFUGAL PUMP

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

Phillips 66 Pipeline Company has proposed to decrease the maximum allowed NOx emission rate for permit units S-1518-24 and -25 from 25 ppmvd to 11 ppmvd at 15% O₂. These units have previously demonstrated operation below 11 ppmvd.

S-1518-24-9 and '-25-9:

- Conditions 1, 6 and 29 of the permits were added for compliance with District Rule 4702..
- Condition 5 of the permits was modified to reduce the allowable NOx emission rate to 11 ppmvd at 15% O₂ for compliance with District Rule 4702.
- Condition 1 of the ATC's was satisfied by the facility's application for this Minor Modification.
- Conditions 2 and 3 of the ATC's have been deleted since these conditions appear on the facility-wide conditions for this stationary source.
- All other conditions of the ATC are already present on the permit.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for

- temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
 - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
 5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
 6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

VIII. ATTACHMENTS

- A. Proposed Modified Title V Operating Permit No S-1518-24-9, and '-25-9
- B. Authorities to Construct No. S-1518-24-8, and '-25-8
- C. Emissions Increases
- D. Application
- E. Previous Title V Operating Permit No.'s S-1518-24-6, and '-25-6

ATTACHMENT A

Proposed Modified Title V Operating Permit No.
S-1518-24-9, and '-25-9

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1518-24-9

EXPIRATION DATE: 05/31/2014

SECTION: SE19 TOWNSHIP: 26S RANGE: 19E

EQUIPMENT DESCRIPTION:

1,024 BHP WAUKESHA MODEL L-7042-G NATURAL GAS-FIRED IC ENGINE (#G8) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR-TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL-RAND CENTRIFUGAL PUMP

PERMIT UNIT REQUIREMENTS

1. This unit shall be fired exclusively on Public Utility Commission (PUC) regulated natural gas. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
2. Pump shall be equipped with mechanical seals. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Exhaust shall vent through integrated catalytic converter/silencer only. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 11 ppmvd NO_x @ 15% O₂ or 0.155 g-NO_x/bhp-hr, 0.011 g-SO_x/bhp-hr, 0.063 g-PM₁₀/bhp-hr, 360 ppmvd CO @ 15% O₂ or 3.09 g-CO/bhp-hr, or 63 ppmvd VOC @ 15% O₂ or 0.309 g-VOC/bhp-hr. [District 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
6. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted within 60 days of initial start-up. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
7. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted at least once every 24 months. [District Rule 4702] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The following test methods shall be used: NO_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 ARB Method 100. [District Rule 4702] Federally Enforceable Through Title V Permit
11. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rule 4702] Federally Enforceable Through Title V Permit
12. 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] 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 a 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
14. 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 and 40 CFR 64] 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 and 40 CFR 64] 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] Federally Enforceable Through Title V Permit
17. 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] Federally Enforceable Through Title V Permit
18. 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] Federally Enforceable Through Title V Permit
19. 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] Federally Enforceable Through Title V Permit
20. 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] Federally Enforceable Through Title V Permit
21. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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22. The permittee shall monitor and record the air/fuel ratio or millivolt reading 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 64] Federally Enforceable Through Title V Permit
23. The approved air/fuel milli-volt reading operating range for monitoring daily compliance as established by the oxygen sensor manufacturer is 500 mv to 900 mv. [40 CFR 64] Federally Enforceable Through Title V Permit
24. If the air/fuel ratio or millivolt reading of the O2 sensor, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR 64] Federally Enforceable Through Title V Permit
25. 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
26. 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
27. 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
28. Sulfur compound emissions shall not exceed 2000 ppmv as SO2. [District Rule 4801] Federally Enforceable Through Title V Permit
29. The permittee shall maintain on file copies of natural gas bills. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1518-25-9

EXPIRATION DATE: 05/31/2014

SECTION: SE19 TOWNSHIP: 26S RANGE: 19E

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7. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted at least once every 24 months. [District Rule 4702] Federally Enforceable Through Title V Permit
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10. 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 ARB Method 100. [District Rule 4702] Federally Enforceable Through Title V Permit
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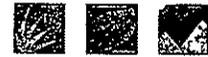
These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT B

Authorities to Construct No.
S-1518-24-8, and '-25-8

- 8 Emissions from this IC engine shall not exceed any of the following limits 11 ppmvd NO_x @ 15% O₂ or 0.155 g NO_x/bhp hr, 0.011 g SO_x/bhp-hr, 0.063 g-PM₁₀/bhp hr, 360 ppmvd CO @ 15% O₂ or 3.09 g CO/bhp-hr, or 63 ppmvd VOC @ 15% O₂ or 0.309 g VOC/bhp hr [District 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
- 9 Source testing to measure natural gas-combustion NO_x, CO and VOC emissions from this unit shall be conducted within 60 days of initial start up [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
- 10 Source testing to measure natural gas combustion NO_x, CO, and VOC emissions from this unit shall be conducted at least once every 24 months [District Rule 4702] 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
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- 16 The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once a 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
- 17 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
- 18 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
- 19 All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five (5) readings evenly spaced out over the 15 consecutive minute period [District Rule 4702] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE



AUTHORITY TO CONSTRUCT

PERMIT NO S 1518-24 8

ISSUANCE DATE 02/13/2014

LEGAL OWNER OR OPERATOR PHILLIPS 66 PIPELINE LLC
MAILING ADDRESS 256 E POLK STREET
COALINGA CA 93210

LOCATION JUNCTION PUMP STATION
14990 HWY 46
LOST HILLS CA 93249

SECTION SE19 **TOWNSHIP** 26S **RANGE** 19E

EQUIPMENT DESCRIPTION

MODIFICATION OF 1 024 BHP WAUKESHA MODEL L 7042 G NATURAL GAS-FIRED IC ENGINE (#G8) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL RAND CENTRIFUGAL PUMP LIMIT NOX TO 11 PPM FOR RULE 4702 COMPLIANCE

CONDITIONS

- 1 The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520 [District Rule 2520] Federally Enforceable Through Title V Permit
- 2 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]
- 3 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than, Ringelmann 1 or 20% opacity [District Rule 4101] Federally Enforceable Through Title V Permit
- 4 This unit shall be fired exclusively on Public Utility Commission (PUC) regulated natural gas [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
- 5 Pump shall be equipped with mechanical seals [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Exhaust shall vent through integrated catalytic converter/silencer only [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392 5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

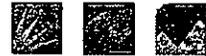
Seyed Sadredin Executive Director / APCO

Mark Keast for

DAVID WARNER Director of Permit Services

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- 20 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] Federally Enforceable Through Title V Permit
- 21 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] Federally Enforceable Through Title V Permit
- 22 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] Federally Enforceable Through Title V Permit
- 23 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] Federally Enforceable Through Title V Permit
- 24 The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
- 25 The permittee shall monitor and record the air/fuel ratio or millivolt reading 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 64] Federally Enforceable Through Title V Permit
- 26 The approved air/fuel milli-volt reading operating range for monitoring daily compliance as established by the oxygen sensor manufacturer is 500 mv to 900 mv. [40 CFR 64] Federally Enforceable Through Title V Permit
- 27 If the air/fuel ratio or millivolt reading of the O₂ sensor, as measured by the O₂ monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 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 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 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 64] Federally Enforceable Through Title V Permit
- 31 Sulfur compound emissions shall not exceed 2000 ppmv as SO₂. [District Rule 4801] Federally Enforceable Through Title V Permit
- 32 The permittee shall maintain on file copies of natural gas bills. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO S 1518 25 8

ISSUANCE DATE 02/13/2014

LEGAL OWNER OR OPERATOR PHILLIPS 66 PIPELINE LLC
MAILING ADDRESS 256 E POLK STREET
COALINGA CA 93210

LOCATION JUNCTION PUMP STATION
14990 HWY 46
LOST HILLS CA 93249

SECTION SE19 TOWNSHIP 26S RANGE 19E

EQUIPMENT DESCRIPTION

MODIFICATION OF 1 024 BHP WAUKESHA MODEL L-7042-G NATURAL GAS-FIRED IC ENGINE (#G9) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR-TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL RAND CENTRIFUGAL PUMP LIMIT NOX TO 11 PPM FOR RULE 4702 COMPLIANCE

CONDITIONS

- 1 The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520 [District Rule 2520] Federally Enforceable Through Title V Permit
- 2 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]
- 3 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than, Ringelmann 1 or 20% opacity [District Rule 4101] Federally Enforceable Through Title V Permit
- 4 This unit shall be fired exclusively on Public Utility Commission (PUC) regulated natural gas [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
- 5 Pump shall be equipped with mechanical seals [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Exhaust shall vent through integrated catalytic converter/silencer only [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Sayed Sadredin Executive Director / APCO

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DAVID WARNER Director of Permit Services
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- 8 Emissions from this IC engine shall not exceed any of the following limits 11 ppmvd NOx @ 15% O2 or 0.155 g-NOx/bhp hr, 0.011 g-SOx/bhp hr, 0.063 g PM10/bhp hr, 360 ppmvd CO @ 15% O2 or 3.09 g-CO/bhp-hr, or 63 ppmvd VOC @ 15% O2 or 0.309 g-VOC/bhp-hr [District 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
- 9 Source testing to measure natural gas-combustion NOx, CO, and VOC emissions from this unit shall be conducted within 60 days of initial start up [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
- 10 Source testing to measure natural gas combustion NOx, CO, and VOC emissions from this unit shall be conducted at least once every 24 months [District Rule 4702] 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
- 13 The following test methods shall be used: NOx (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 ARB Method 100 [District Rule 4702] Federally Enforceable Through Title V Permit
- 14 Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate [District Rule 4702] Federally Enforceable Through Title V Permit
- 15 For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NOx, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen [District Rule 4702] Federally Enforceable Through Title V Permit
- 16 The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once a 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
- 17 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
- 18 If either the NOx 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 performing the notification and testing required by this condition [District Rule 4702 and 40 CFR 64] Federally Enforceable Through Title V Permit
- 19 All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period [District Rule 4702] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

- 20 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] Federally Enforceable Through Title V Permit
- 21 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] Federally Enforceable Through Title V Permit
- 22 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] Federally Enforceable Through Title V Permit
- 23 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] Federally Enforceable Through Title V Permit
- 24 The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
- 25 The permittee shall monitor and record the air/fuel ratio or millivolt reading 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 64] Federally Enforceable Through Title V Permit
- 26 The approved air/fuel milli volt reading operating range for monitoring daily compliance as established by the oxygen sensor manufacturer is 500 mv to 900 mv. [40 CFR 64] Federally Enforceable Through Title V Permit
- 27 If the air/fuel ratio or millivolt reading of the O₂ sensor, as measured by the O₂ monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 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 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 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 64] Federally Enforceable Through Title V Permit
- 31 Sulfur compound emissions shall not exceed 2000 ppmv as SO₂. [District Rule 4801] Federally Enforceable Through Title V Permit
- 32 The permittee shall maintain on file copies of natural gas bills. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit

ATTACHMENT C

Emissions Increases

	SSIPE (lb/yr)				
	NOx	VOC	CO	SOx	PM10
S-1518-24-9	-3,896	0	0	0	0
S-1518-25-9	-3,896	0	0	0	0
TOTAL	-7,792	0	0	0	0

ATTACHMENT D

Application

San Joaquin Valley Air Pollution Control District

www.valleyair.org

RECEIVED

DEC 24 2013

Permit Application For:

ADMINISTRATIVE AMENDMENT MINOR MODIFICATION SIGNIFICANT MODIFICATION

Permits Services
SJVAPCD

1. PERMIT TO BE ISSUED TO: <p style="text-align: center;">Phillips 66 Pipeline Company</p>	
2. MAILING ADDRESS: STREET/P.O. BOX: <u>256 E. Polk St.</u> CITY: <u>Coalinga</u> STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>93210</u>	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <u>14900 HWY 46</u> CITY: <u>Lost Hills</u> <u>SE</u> ¼ SECTION <u>19</u> TOWNSHIP <u>26S</u> RANGE <u>19E</u>	INSTALLATION DATE:
4. GENERAL NATURE OF BUSINESS: <p style="text-align: center;">Crude Oil Pump Station</p>	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary) S-1518-24-6 Decrease NOx limit to 11 ppmv S-1518-25-6 Decrease NOx limit to 11 ppmv	
6. TYPE OR PRINT NAME OF APPLICANT: <p style="text-align: center;">Travis Wilke</p>	TITLE OF APPLICANT: <p style="text-align: center;">WC Pipeline Division Manager</p>
7. SIGNATURE OF APPLICANT: 	DATE: <u>12/17/13</u> PHONE: (562) 290-1502 FAX: EMAIL: <u>j.a.adams@p66.com</u>

For APCD Use Only:

DATE STAMP	FILING FEE RECEIVED: \$ _____ CHECK#: _____ DATE PAID: _____ PROJECT NO: <u>S-1134783</u> FACILITY ID: <u>S-1518</u>
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CERTIFICATION

Phillips 66 Pipeline Company hereby certifies as follows:

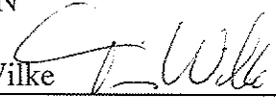
1. Phillips 66 owns or operates certain major stationary sources in the State of California. Such sources are comprised of a vast number of emission points. As used in this certification, the term "major stationary source" shall, with respect to Phillips 66 stationary sources in the SJVUAPCD, have the meaning ascribed thereto in SJVUAPCD Rule 2201, Section 3.23, and shall, with respect to all of Phillips 66 other stationary sources in the State of California, have the meaning ascribed thereto in section 302(J) of the Clean Air Act (42 U.S.C. Section 7602 (J)).

2. Subject to paragraphs 3 and 4 below, all major stationary sources owned or operated by Phillips 66 in the State of California are either in compliance, or on an approved schedule of compliance, with all applicable emission limitations and standards under the Clean Air Act and all of the State Implementation Plan approved by the Environmental Protection Agency.

3. This certification is made on information and belief and is based upon a review of Phillips 66 major stationary sources in the State of California by those employees of Phillips 66 who have operational responsibility for compliance. In conducting such reviews, Phillips 66 and its employees have acted in good faith and have exercised best efforts to identify any exceedance of the emission limitations and standards referred to in paragraph 2 thereof.

4. This certification shall speak as of the time and date of its execution.

CERTIFICATION

By: Travis Wilke 

Date: 12/17/13

Title: WC Pipeline Division Manager

Time: 1304

San Joaquin Valley Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

- SIGNIFICANT PERMIT MODIFICATION ADMINISTRATIVE
 MINOR PERMIT MODIFICATION AMENDMENT

COMPANY NAME: Phillips 66 Pipeline Company	FACILITY ID: S- 1518
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: Phillips66 Company, Inc.	
3. Agent to the Owner: NA	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- TW Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- TW Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- TW Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- TW Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:



 Signature of Responsible Official

12/17/13

 Date

Travis Wilke

 Name of Responsible Official (please print)

WC Pipeline Division Manager

 Title of Responsible Official (please print)

**San Joaquin Valley
Unified Air Pollution Control District**

Certification of Truth and Accuracy

Company Name: Phillips 66 Junction Pump Station	Facility ID: S - 1518
---	-----------------------

I declare, under penalty of perjury under the laws of the state of California that based on information and belief formed after reasonable inquiry, the statements and information provided in the document are true, accurate, and complete:



Signature of Responsible Official

12-17-2013

Date

Travis Wilke

Name of Responsible Official (please print)

WC Division Manager

Title of Responsible Official (please print)

ATTACHMENT E

Previous Title V Operating Permit No.'s
S-1518-24-6, and '-25-6

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1518-24-6

EXPIRATION DATE: 05/31/2014

SECTION: SE19 **TOWNSHIP:** 26S **RANGE:** 19E

EQUIPMENT DESCRIPTION:

1,024 BHP WAUKESHA MODEL L-7042-G NATURAL GAS-FIRED IC ENGINE (#G8) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR-TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL-RAND CENTRIFUGAL PUMP

PERMIT UNIT REQUIREMENTS

1. Pump shall be equipped with mechanical seals. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Exhaust shall vent through integrated catalytic converter/silencer only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Emission rates shall not exceed any of the following limits: NOx: 25 ppmv @ 15% O2, CO: 360 ppmv @ 15% O2, VOC: 63 ppmv @ 15% O2, 0.063 g-PM10/bhp-hr, or 0.09 g-SOx/bhp-hr. [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
5. Source testing to measure natural gas-combustion NOx, CO, and VOC emissions from this unit shall be conducted at least once every 24 months. [District Rule 4702] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. The following test methods shall be used: NOx (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 ARB Method 100. [District Rule 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. [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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, NOx, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once a 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
12. 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 and 40 CFR 64] 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 and 40 CFR 64] 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] Federally Enforceable Through Title V Permit
15. 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] Federally Enforceable Through Title V Permit
16. 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] Federally Enforceable Through Title V Permit
17. 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] Federally Enforceable Through Title V Permit
18. 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] Federally Enforceable Through Title V Permit
19. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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20. The permittee shall monitor and record the air/fuel ratio or millivolt reading 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 64] Federally Enforceable Through Title V Permit
21. The approved air/fuel milli-volt reading operating range for monitoring daily compliance as established by the oxygen sensor manufacturer is 500 mv to 900 mv. [40 CFR 64] Federally Enforceable Through Title V Permit
22. If the air/fuel ratio or millivolt reading of the O2 sensor, as measured by the O2 monitor, fails to meet the approved operating range, the permittee shall adjust operating parameters to return the concentration to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the readings continue to fail the allowable emission concentration after 8 hours, the permittee shall report a deviation to the District within the following 1 hour, and conduct a certified source test within 60 days of the first excursion. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR 64] Federally Enforceable Through Title V Permit
23. 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
24. 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
25. 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
26. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1518-25-6

EXPIRATION DATE: 05/31/2014

SECTION: SE19 **TOWNSHIP:** 26S **RANGE:** 19E

EQUIPMENT DESCRIPTION:

1,024 BHP WAUKESHA MODEL L-7042-G NATURAL GAS-FIRED IC ENGINE (#G9) SERVED BY THREE-WAY INTEGRATED CATALYTIC CONVERTER/SILENCER AND AIR-TO-FUEL RATIO CONTROLLER POWERING AN INGERSOLL-RAND CENTRIFUGAL PUMP

PERMIT UNIT REQUIREMENTS

1. Pump shall be equipped with mechanical seals. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Exhaust shall vent through integrated catalytic converter/silencer only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Emission rates shall not exceed any of the following limits: NO_x: 25 ppmv @ 15% O₂, CO: 360 ppmv @ 15% O₂, VOC: 63 ppmv @ 15% O₂, 0.063 g-PM₁₀/bhp-hr, or 0.09 g-SO_x/bhp-hr. [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
5. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted at least once every 24 months. [District Rule 4702] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. 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 ARB Method 100. [District Rule 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. [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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] Federally Enforceable Through Title V Permit

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