



OCT 15 2012

Jeffrey Misenhimer
Visalia Wastewater Treatment
7579 Avenue 288
Visalia, CA 93277

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-948
Project # S-1112381**

Dear Mr. Misenhimer:

Enclosed for your review and comment is the District's analysis of Visalia Wastewater Treatment's application for the Federally Mandated Operating Permit for its Wastewater Treatment Plant at 7579 Avenue 288 in Visalia, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,



David Warner
Director of Permit Services

DW: SL/cm

Attachments



OCT 15 2012

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

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-948
Project # S-1112381**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of Visalia Wastewater Treatment's application for the Federally Mandated Operating Permit for its Wastewater Treatment Plant at 7579 Avenue 288 in Visalia, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner
Director of Permit Services

DW: SL/cm

Attachments



OCT 15 2012

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

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-948
Project # S-1112381**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of Visalia Wastewater Treatment's application for the Federally Mandated Operating Permit for its Wastewater Treatment Plant at 7579 Avenue 288 in Visalia, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner
Director of Permit Services

DW: SL/cm

Attachments

**NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED ISSUANCE OF
FEDERALLY MANDATED OPERATING PERMITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of the Federally Mandated Operating permits to Visalia Wastewater Treatment for its Wastewater Treatment Plant at 7579 Avenue 288 in Visalia, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1112381, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed Federally Mandated Operating initial permits. If requested by the public, the District will hold a public hearing regarding issuance of this initial permit. For additional information, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500. Written comments on the proposed initial permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

Visalia Wastewater Treatment Plant

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TITLE V APPLICATION REVIEW

Project #: S-1112381
Deemed Complete: June 14, 2011

Engineer: Stephen Leonard
Date: September 27, 2012

Reviewed by AP SWR A QK

Facility Number: S-984
Facility Name: Visalia Wastewater Treatment Plant
Mailing Address: 7579 Avenue 288
Visalia, CA 93277

OCT 03 2012

Contact Name: Jeffrey Misenhimer
Phone: (559) 713-4176

Responsible Official: Jeffrey Misenhimer
Title: Wastewater Superintendent

I. PROPOSAL

Visalia Wastewater Treatment Plant (VWTP) is proposing that an initial Title V permit be issued for its existing wastewater treatment facility located in Visalia, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

II. FACILITY LOCATION

Visalia Wastewater Treatment Plant is located at 7579 Avenue 288 in Visalia, CA.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment A.

A summary of the exempt equipment categories, which describe the insignificant activities or equipment at the facility not requiring a permit, is shown in Attachment B. This equipment is not exempt from facility-wide requirements.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit templates:

A. Facility-wide Umbrella General Permit Template SJV-UM-0-3

The applicant has requested to utilize template #SJV-UM-03, Facility-wide Umbrella General Permit Template for unit S-984-0-0. Based on the information submitted on the Template Qualification Form (Attachment D), the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

a. S-984-0-1 – Facility-Wide Requirements

- Conditions 2 through 41 on the permit are based on the Facility-Wide Umbrella Template SJV-UM-0-3.

VI. APPLICABLE REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES

Rules Addressed by Facility-Wide Umbrella Template SJV-UM-0-3

- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2020, Exemptions (amended December 20, 2007 – SIP approved amended August 18, 2011 – not SIP approved)

Recent amendments to this rule do not affect the federal applicability of this rule.

- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits [sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16 and 10.0], (amended June 21, 2001)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 8021, Construction, Demolition, Excavation and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)

- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 82, Subpart B and F, Stratospheric Ozone
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended April 21, 2011)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4201, Particulate Matter Concentration (Amended December 17, 1992)
- District Rule 4311, Flares (Amended 6/18/09)
- District Rule 4702, Internal Combustion Engines – Phase 2, (amended January 18, 2007 – SIP approved; amended August 18, 2011 – not SIP approved)
- 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants (NESHAPS) for Stationary Reciprocating Internal Combustion Engines (amended January 18, 2008)
- 40 CFR Part 64 – Compliance Assurance Monitoring (CAM)

VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as Federally Enforceable through Title V Permit.

This facility is subject to the following rules that are not currently federally enforceable:

1. **Rule 4102 – Nuisance**

This rule is applicable to any source operation which emits or may emit air contaminants or other materials. This rule stipulates that a person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.

For this facility, condition 1 of the facility-wide requirements S-984-0-1 is based on the rule listed above and is not Federally Enforceable through Title V.

2. **California Code of Regulations (CCR), Title 17 (Public Health), Division 3 (Air Resources), Chapter 1 (Air Resources Board), Subchapter 7.5 (Air Toxic Control Measures), Measure 93115 (Stationary Diesel Engines)**

The requirements of the CCR Title 17 Measure 93115 are not federally enforceable. They are, however, requirements that are enforced on a state and local level and the measure is cited in the rule reference section of permit conditions involving stationary compression ignition IC engines.

3. **California Code of Regulations (CCR), Title 17 (Public Health), Division 3 (Air Resources), Chapter 1 (Air Resources Board), Subchapter 7.5 (Air Toxic Control Measures), Measure 93116 (Portable Diesel Engines)**

The requirements of the CCR Title 17 Measure 93116 are not federally enforceable. They are, however, requirements that are enforced on a state and local level and the measure is cited in the rule reference section of permit conditions involving portable compression ignition IC engines.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

a. Facility Wide Requirements

The applicant is proposing to use a general permit template to address federally applicable facility-wide requirements. Section IV of template SJV-UM-0-3 includes a demonstration of compliance for all applicable requirements. Template conditions have been added to the facility wide requirements as condition numbers 2 through 41 to assure compliance with these requirements.

B. Requirements Not Addressed by Model General Permit Templates

1. District Rule 1081, Source Sampling

This rule ensures that any source operation which emits or may emit air contaminants provides adequate and safe facilities for use in sampling to determine compliance. This rule also specifies methods and procedures for source testing, sample collection, and compliance determination.

a. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER (S-984-10-5)

b. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-13-4)

- Conditions 18, 19, & 20 of the requirements for permit units S-984-10-5 and -13-4 are based on District Rule 1081.

2. District Rule 2201, New and Modified Stationary Source Review Rule (District NSR Rule)

a. SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARE (S-984-5-2)

Permit unit S-984-5 became subject to the District NSR Rule upon application for Authority to Construct (ATC) S-984-5-1 to modify the permit unit by adding two additional digester units. In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- Conditions 1 & 3 from the existing PTO have been included as conditions 15 & 18 of the requirements for draft permit unit S-984-5-2.

b. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER (S-984-10-5)

Permit unit S-984-10 was subject to the District NSR Rule upon application for the originating ATC.

- Conditions 1, 2, 5, 6, 7, 8, 9, 10, & 11 from the existing PTO have been included as conditions 1, 2, 4-9, & 24 of the requirements for draft permit unit S-984-10-5.

c. 1,550 BHP KOHLER SPECTRUM DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-11-2)

Permit unit S-984-11 was subject to the District NSR Rule upon application for the originating ATC.

- Conditions 1, 2, & 3 from the existing PTO have been included as conditions 1, 2, & 3 of the requirements for draft permit unit S-984-11-2.

d. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-13-4)

Permit unit S-984-13 was subject to the District NSR Rule upon application for the originating ATC.

- Conditions 1, 2, 5, 6, 7, 8, 9, 10, & 25 from the existing PTO have been included as conditions 1, 2, 4-9, & 24 of the requirements for draft permit unit S-984-13-4.

e. 821 BHP VOLVO MODEL TAD1642GE TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-18-1)

Permit unit S-984-18 was subject to the District NSR Rule upon application for the originating ATC.

- Conditions 4, 6, 7, & 8 from the existing PTO have been included as conditions 3, 5, 6, & 7 of the requirements for draft permit unit S-984-18-1.
- f. TRANSPORTABLE 86 BHP CATERPILLAR MODEL 3054T TIER 0 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE S-984 (S-984-19-1)

Permit unit S-984-19 was subject to the District NSR Rule upon application for the originating ATC.

- Conditions 6, 7, 8, 11, 12, & 13 from the existing PTO have been included as conditions 6, 7, 8, 10, 11, & 12 of the requirements for draft permit unit S-984-18-1.

3. District Rule 2520, Federally Mandated Operating Permits

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

4. District Rule 4201 – Particulate Matter Concentration

Section 3.1 prohibits discharge of dust, fumes, or total particulate matter into the atmosphere from any single source operation in excess of 0.1 grain per dry standard cubic foot.

- a. SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARE (S-984-5-2)
- Condition 5 of the requirements for this permit unit is based on District Rule 4201.

- b. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER (S-984-10-5)
- Condition 3 of the requirements for this permit unit is based on District Rule 4201.
- d. 1,550 BHP KOHLER SPECTRUM DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-11-2)
- Condition 4 of the requirements for this permit unit is based on District Rule 4201.
- d. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-13-4)
- Condition 3 of the requirements for this permit unit is based on District Rule 4201.
- e. 821 BHP VOLVO MODEL TAD1642GE TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-18-1)
- Condition 1 of the requirements for this permit unit is based on District Rule 4201.
- f. TRANSPORTABLE 86 BHP CATERPILLAR MODEL 3054T TIER 0 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE S-984 (S-984-19-1)
- Condition 3 of the requirements for this permit unit is based on District Rule 4201.

5. District Rule 4311 - Flares

- a. SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES (S-984-5-2)

Section 5.0 lists the requirements of this rule. Section 5.2 requires a flame to be constantly present while venting gases. The outlet shall be equipped with an automatic ignition system, or shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. Section 5.4 states that 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. Section 5.5 requires flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. Section 5.6 requires that open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18.

- Conditions 2, 3, 4, 6 - 13, 19, 20, & 21 of the requirements for this permit unit assures compliance with these requirements.

Section 6.2 requires records to be kept for at least 5 years.

- Condition 21 of the requirements for this permit unit assures compliance with this requirement.

6. Rule 4702 – Internal Combustion Engines – Phase 2

The purpose of this rule is to limit the emissions of NO_x, CO, VOC, and SO_x from internal combustion engines. The rule applies to any engine rated at 25 bhp or greater.

The SIP approved version of Rule 4702 is the version amended on 1/18/07. Rule 4702 was amended on 8/18/11; however, these amendments have not yet been approved into the SIP. The 8/19/11 amendments established more stringent NO_x emission limits and impose fuel sulfur requirements for non-agricultural operation spark ignited IC engines. Compliance with these requirements is phased in beginning in 2014. Therefore, compliance with the currently applicable requirements of the 8/18/11 amendments demonstrates compliance with the requirements of the SIP approved version of Rule 4702.

- a. 1,550 BHP KOHLER SPECTRUM DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-11-2)
- b. 821 BHP VOLVO MODEL TAD1642GE TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-18-1)
- c. TRANSPORTABLE 86 BHP CATERPILLAR MODEL 3054T TIER 0 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE S-984 (S-984-19-1)

Section 4.2 has an exemption for emergency standby engines from all sections of this rule except for the requirements of Sections 5.9 and 6.2.3, provided the engine is equipped with an operating nonresettable elapsed time meter. Section 3.15 defines an emergency standby engine.

Section 5.9 lists engine monitoring requirements, including those for emergency engines.

- Condition 6 of permit unit '-11-2, condition 8 of permit unit '-18-1, and condition 4 of '-19-1 assures compliance with the requirements of Section 5.9.2
- Condition 9 of permit unit '-11-2, condition 9 of permit unit '-18-1, and condition 16 of '-19-1 assures compliance with the requirements of Section 5.9.3.
- Condition 5 of permit unit '-11-2, condition 4 of permit unit '-18-1, and condition 13 of '-19-1 assures compliance with the requirements of Section 5.9.4.

Section 6.2 contains recordkeeping requirements. This section outlines the information that should be gathered under sections 6.2.3. Per Section 6.2.3, an operator claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following: Total hours of operation, the type of fuel used, the purpose for operating the engine, all hours of non-emergency and emergency operation shall be reported, and other support documentation necessary to demonstrate claim to the exemption.

- Conditions 8 & 13 of permit unit '-11-2, conditions 13 & 14 of permit unit '-18-1, and conditions 17, & 18 of '-19-1 assures compliance with the requirements of Section 6.2.3.

- d. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER (S-984-10-5)
- e. 620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR (S-984-13-4)

Section 5.2 requires that the operator of a spark-ignited internal combustion engine rated at >50 bhp that is used exclusively in non-AO shall not operate it in such a manner that results in emissions exceeding the limits in Table 1. Per Table 1, spark ignited lean-burn engines greater than 100 bhp must meet the following limits, corrected to 15% O₂: 65 ppmv-NO_x, 2,000 ppmv-CO, and 750 ppmv-VOC.

- Condition 9 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 5.2.

Section 5.7 requires that on and after the compliance schedule specified in Section 7.5, operators of non-AO (agricultural operations) spark-ignited engines shall comply with one of the following requirements: Operate the engine exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases; or Limit gaseous fuel sulfur content to no more than five (5) grains of total Sulfur per one hundred (100) standard cubic feet, which is equivalent to 80 ppmv total S in the fuel gas.

The digester gas combusted in the lean-burn engines is scrubbed to provide a fuel gas limited by permit condition to no more than 200 ppmv S, which equates to 12.6 gr-S/100 dscf (as H₂S). VWTP needs to obtain an ATC to lower their maximum fuel gas sulfur content by the applicable compliance date listed in District Rule 4702, Section 7.5.1, Table 5. Records of fuel gas sulfur content sampling show the total S of the fuel gas has historically been < 50 ppmv. An ATC is required to make the Rule 4702 limit enforceable on the engine permits. Currently, the engines are in compliance with Rule 4702 fuel sulfur limits.

Section 5.8.1 requires that each engine with a rated brake horsepower of 1,000 bhp or greater and which is allowed by Permit-to-Operate or Permit-Exempt Equipment Registration condition to operate more than 2,000 hours per calendar year, or with an external emission control device, either install, operate, and maintain continuous monitoring equipment for NO_x, CO, and oxygen, as identified in Rule 1080 (Stack Monitoring), or install, operate, and maintain APCO approved alternate monitoring. The monitoring system may be a continuous emission monitoring system (CEMS), a parametric emissions monitoring system (PEMS), or an alternative monitoring system approved by the APCO. APCO-approved alternate monitoring shall consist of one or more of the following: Periodic NO_x and CO emission concentrations, engine exhaust oxygen concentration, air-to-fuel ratio, flow rate of reducing agents added to engine exhaust, catalyst inlet and exhaust temperature, catalyst inlet and exhaust oxygen concentration, or other operational characteristics.

The two lean-burn engines at this facility are each rated at less than 1,000 bhp and do not include add-on exhaust controls. The lean-burn engines follow a previously approved alternate monitoring scheme taking monthly measurements of NO_x, CO, and O₂ concentrations with a hand-held portable emissions analyzer. Although the latest amendment to Rule 4702 would allow these engines to forego the alternate monitoring requirements, removing those conditions would be considered a relaxation of monitoring and requires an Authority to Construct (ATC) application per District Policy ADM-1235.

- Conditions 10, 11, 12, & 13 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 5.8.1.

Section 5.8.6 requires that each engine install and operate a nonresettable elapsed time meter.

- Condition 2 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 5.8.6.

Section 5.8.7 & 5.8.8 requires that each engine implement the Inspection and Monitoring (I&M) plan, if any, submitted to and approved by the APCO.

- Conditions 21 & 22 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 5.8.7 & 5.8.8.

Section 5.8.9 requires that each engine use a portable NO_x analyzer to take NO_x emission readings to verify compliance with the emission requirements of Section 5.2 or Section 8.0 during each calendar quarter in which a source test is not performed and the engine is operated.

- The existing monthly monitoring requirement for each engine assures compliance with the requirement of Section 5.8.9.

Section 5.10.1 requires that an operator of an engine complying with Sections 5.7.2 or 5.7.5 shall perform an annual sulfur fuel analysis in accordance with the test methods in Section 6.4. The operator shall keep the records of the fuel analysis and shall provide it to the District upon request. All combustion equipment at this facility utilizes "scrubbed" digester gas which maintains a total sulfur limit of 200 ppmv. Engines '-10 and '-13 each have permit conditions limiting fuel gas sulfur content as described above. Continued compliance is expected.

- Condition 8 of permit units '-10-5 and '-13-4 requires sulfur analysis every 24 months. This condition will be revised to require annual testing with the ATC for lowering the sulfur content to meet the future fuel gas sulfur requirements.

Section 6.2 contains recordkeeping requirements. This section outlines the operating parameter information that should be recorded under 6.2.1 and maintained under 6.2.2.

- Condition 23 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 6.2.1.
- Condition 25 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 6.2.2.

Section 6.3 requires compliance source testing with the NO_x, CO and VOC emissions limits of Rule 4702. The January 18, 2007, amendment to Rule 4702 (SIP approved) included 24 month source testing requirements for lean-burn engines without external exhaust controls. The current August 18, 2011, amendment to Rule 4702 (not SIP approved to date) does not require 24 month source testing to demonstrate rule compliance for non-AO spark ignited lean-burn engines without external exhaust controls. The source testing requirements remain on permits '-9-3 and '-15-1.

- Condition 14 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 6.3.

Section 6.4 lists test methods approved for use in determining emission limits and fuel gas sulfur content for the IC engines.

- Condition 17 of permit units '-10-5 and '-13-4 assures compliance with the requirements of Section 6.4.

8. 40 CFR 60 Subpart A

- a. SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES (S-984-5-2)

NSPS Subpart A, Section 60.18 (c)(1) requires flares to be designed and to operate with no visible emissions, except for periods not to exceed 5 minutes during any 2 consecutive hours. Section 60.18 (f)(1) also requires that visible emissions determinations be made using EPA Method 22.

- Condition 14 of the requirements for permit unit '-5-2 assures compliance with this requirement.

Sections 60.18 (c)(3), 60.18 (c)(5), and 60.18 (f)(3-6) states that non-assisted flares shall have a diameter of 3 inches or greater, have a hydrogen content of 8.0 percent (by volume), or greater, and be designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, V_{max} , as determined by the equation in this section. These sections also set a limit on the net heating value of the flared gas to be no less than 200 Btu/scf for non-assisted flares and 300 Btu/scf for air-assisted or steam-assisted flares. The method to be used to calculate net heating value is also specified.

- Conditions 9, 16, & 19 of the requirements for permit unit '-5-2 assures compliance with these requirements.

Section 60.18 (c)(4)(i-iii) also requires the flare gas exit velocity to conform to the following limits:

<u>Flare Type</u>	<u>Flare Gas Min. Btu/scf</u>	<u>Exit Velocity (ft/sec)</u>	
		<u>Min</u>	<u>Max</u>
Air-assisted	300	----	< 55
Non-assisted	200	----	< 60
Steam-assisted	300	----	< 60
Non-assisted	>1,000	60	<400
Steam-assisted	>1,000	60	<400

- Conditions 11-13 of the requirements for permit unit '-5-2 assures compliance with this requirement.

Sections 60.18 (c)(2), 60.18 (d), 60.18 (e), and 60.18 (f)(2)

These sections of Subpart A require that flares be operated with a flame present at all times when emissions may be vented to them. The presence of the pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the flame presence.

- Conditions 2-4 of the requirements for permit unit '5-2 assures compliance with this requirement.

9. 40 CFR Part 60, Subpart IIII, New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines

Section 60.4200(a)(2)(i) states that the provisions of this subpart apply to owners and operators of stationary compression ignition (CI) internal combustion engines that commence construction after July 11, 2005 where the engines are manufactured after April 1, 2006 and are not fire pump engines.

The 1,550 bhp emergency engine, permit unit S-984-11, was installed prior to July 11, 2005 and is not subject to this subpart.

The remaining stationary emergency engine, permit unit S-3103-18 was installed after July 11, 2005 with the engine being manufactured after April 1, 2006 and is not a fire pump engine. Therefore, this engine is subject to this subpart.

Engine(s) must meet the appropriate Subpart IIII emission standards for new engines, based on the model year, size, and number of liters per cylinder.

- The above engine is a Tier 2 certified RICE which is the appropriate emission standard for engines >750 bhp, but <1,207 bhp manufactured in 2008.

The engines have standards, monitoring, recordkeeping and reporting requirements which are determined by reviewing the subpart.

Engine S-984-18-1 must comply with the following standards:

Standard
§60.4205(b)
§60.4206
§60.4207(a), (b)
§60.4209(a)
§60.4211(f)
Recordkeeping
§60.4214(b)

- Conditions 3, 4, 6, 7, 10, & 13 of permit unit S-984-18-1 assure compliance with the requirements of Subpart IIII

10. 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Spark Ignition Internal Combustion Engines

Each spark ignited engine at this facility (S-984-10, & '-13) was manufactured and installed prior to July 1, 2007. Therefore, the requirements of Subpart JJJJ are not applicable to these engines.

11. 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)

§ 63.6580 Purpose

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

§ 63.6585 Applicability

Owners or Operators of a stationary RICE at a major or area source of HAP emissions are subject to this subpart, except if the stationary RICE is being tested at a stationary RICE test cell/stand. This facility is an area source of HAP emissions; therefore, this subpart applies. As such, each RICE at this facility is subject to this subpart.

Engines:

S-984-10-5, and S-984-13-4 must comply with the following subsections:

Standard

§63.6603(a)-Table 2d.11

§63.6595(a)(1)

§63.6605(a), (b)

§63.6625(e), (h), (j)

§63.6640(b)

Monitoring/Testing

§63.6625(j)

§63.6640(a)

§63.6640(a)-Table 6.9.a.i-ii

§63.6640(b)

Recordkeeping

§63.6625(j)

§63.6655(a), (a)(1)-(2), (a)(4)-(5)

§63.6655(d)-(e)

§63.6660(a)-(c)

Reporting

§63.6640(b), (e)

§63.6650(a)

§63.6650(a)-Table 7.2.a-c

§63.6650(b), (b)(6)-(9)

[G]§63.6650(c), (f), [G](g)

§63.6650(b)(1)-(4)

For engines S-984-10-5 and S-984-13-4, conditions 2, 9-11, 13, 14, 17, 21, 23, 25-33 assure compliance with the requirements of Subpart ZZZZ

Engine S-984-11-2 must comply with the following subsections:

§63.6603(a)-Table 2d.4

§63.6595(a)(1)

§63.6605(a)-(b)

§63.6625(e), (h), (i)

§63.6640(b), (f) (1)

Monitoring/Testing

§63.6625(f), (i)

§63.6640(a)

§63.6640(a)-Table 6.9.a.i-ii, (b)

Recordkeeping

§63.6625(i)

§63.6655(a), (a)(1)-(2), (a)(4)-(5), (d)-(f)

§63.6660(a)-(c)

Reporting
§63.6640(b), (e)
§63.6650(f)

For engine S-984-11-2, conditions 5-7, 9, 10, 12-21 assure compliance with the requirements of Subpart ZZZZ.

Engine S-984-18-1 must comply with the following subsections:

§63.6590 (c)

Subsection §63.6590 requires new or reconstructed stationary CI RICE to meet the applicable requirements of 40 CFR 60 Subpart IIII, which is demonstrated above. No other requirements of 40 CFR 63 Subpart ZZZZ applies to engine S-984-18-1.

12. 40 CFR Part 64 – Compliance Assurance Monitoring (CAM)

To be subject to CAM for a particular pollutant, an emissions unit must meet all of the following criteria:

- The unit must have an emission limit for the pollutant,
- The unit must have add-on controls for the pollutant, and
- The pre-control potential to emit for the unit must exceed major source thresholds.

CAM is not triggered for any permit units. None of the units are equipped with add on control equipment and none of the units have emissions limits that exceed major source thresholds.

X. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

By using the model general permit templates listed in Section IV of this evaluation, the applicant has requested that a permit shield be issued for requirements addressed in the templates. The basis for each permit shield is discussed in the Permit Shield section of each template.

XI. PERMIT CONDITIONS

See draft Title V Permit Unit Requirements beginning on the next page.

San Joaquin Valley Air Pollution Control District

FACILITY: S-984-0-1

EXPIRATION DATE: 03/31/2015

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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] 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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] 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] 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 (12/20/07). [District Rules 2010 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; 2080; and 2520] 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: 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] 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] 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: VISALIA WASTEWATER TREATMENT
Location: 7579 AVENUE 288, VISALIA, CA 93277

S-984-0-1 Sep 27 2012 9:25AM - LEONARDS

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] 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 District Rule 2520 (6/21/01). [District Rules 2520 and 1100] 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] 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] 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] 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] 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] 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] 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] 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] 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] 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] 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 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and 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 Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601] Federally Enforceable Through Title V Permit
25. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601] Federally Enforceable Through Title V Permit
26. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601(12/17/09). [District Rule 4601] 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] 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 Part 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 Part 82, Subpart B. [40 CFR Part 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 (8/19/2004) or Rule 8011 (8/19/2004). [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 (8/19/2004) or Rule 8011 (8/19/2004). [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 (8/19/2004) or Rule 8011 (8/19/2004). [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 (8/19/2004) or Rule 8011 (8/19/2004). [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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
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

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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] 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] 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] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
41. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100 (12/17/92); 2010 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
42. On XXXXXXXXX, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-5-2

EXPIRATION DATE 03/31/2015

EQUIPMENT DESCRIPTION:

SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES

PERMIT UNIT REQUIREMENTS

1. The flame shall be present at all times when combustible gases are vented through the flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
2. The flares shall operate with a pilot flame present at all times. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
3. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
4. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
7. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
8. The flares shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
9. The flares shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
10. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (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 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
11. The flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
12. The flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [District Rule 4311 and 40 CFR 60 Subpart A] 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 flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
14. Each flare shall operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any two consecutive hours. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
15. H₂S content of digester gas flared shall not exceed 200 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
17. Net heating value of the gas being combusted shall be 200 Btu/scf or greater. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
18. Emission rates from the flares shall not exceed any of the following limits: NO_x (as NO₂) - 0.068 lb/MMBtu; VOC (as methane) - 0.063 lb/MMBtu; CO - 0.370 lb/MMBtu; or PM₁₀ - 0.026 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The net heating value of the gas being combusted by the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
20. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [District Rule 4311 and 40 CFR 60 Subpart A] 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 4311] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-10-5

EXPIRATION DATE: 03/31/2015

SECTION: NE06 **TOWNSHIP:** 19S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with a Hilco Oil Mist Eliminator, which shall be at least 90% efficient in controlling crankcase VOC emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with a nonresettable fuel meter and a nonresettable elapsed operating time meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] 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. This engine shall only be fired on digester waste gas and/or PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Total quantity of natural gas and digester gas usage shall not exceed 175,200 scf/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The digester gas shall be treated with ferric/ferrous dry hydrogen H₂S scrubber before being used as a fuel in the engine. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The H₂S content of the digester gas used as a fuel in the engine shall not exceed 200 ppmvd. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with sulfur compounds emission rates shall be demonstrated by gas sulfur analysis of treated digester gas, mass balance calculations, and amount of digester gas burned in the engine at least once every 24 months. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from this IC engine shall not exceed any of the following limits: PM₁₀: 8.0E-05 lb/hp-hr, NO_x (as NO₂): 65 ppmvd at 15% O₂, VOC: 196 ppmvd (as methane) at 15% O₂ and CO: 308 ppmvd at 15% O₂. [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. 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, and 40 CFR 63 Subpart ZZZZ] 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. 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 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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
13. 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 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted not less than once every 24 months. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. 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
16. 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
17. 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; VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100; Determination of total sulfur as hydrogen sulfide (H₂S) content - EPA Method 11 or EPA Method 15. EPA approved alternative test methods may also be used to satisfy the source testing requirements of this permit with prior written approval from the APCO. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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
19. Source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [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. 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, and 40 CFR 63 Subpart ZZZZ] 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.

22. The permittee shall update the I&M plan (i.e. monthly NO_x, CO, and O₂ emissions monitoring with a portable analyzer) 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
23. 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) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
24. The permittee shall maintain records of daily digester gas and natural gas usage. [District Rule 2201] Federally Enforceable Through Title V Permit
25. 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, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
26. On and after October 19, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
27. On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
28. On and after October 19, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
29. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
30. On and after October 19, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
31. On and after October 19, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
32. On and after October 19, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] 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.

33. On and after October 19, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-11-2

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

1,550 BHP KOHLER SPECTRUM DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] 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. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702 and 40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. 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 Rules 1070, 4702, 2520, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-13-4

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with a Hilco Oil Mist Eliminator, which shall be at least 90% efficient in controlling crankcase VOC emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with a nonresettable fuel meter and a nonresettable elapsed operating time meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] 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. This engine shall only be fired on digester waste gas and/or PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Total quantity of natural gas and digester gas usage shall not exceed 175,200 scf/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The digester gas shall be treated with ferric/ferrous dry hydrogen H₂S scrubber before being used as a fuel in the engine. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The H₂S content of the digester gas used as a fuel in the engine shall not exceed 200 ppmvd. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with sulfur compounds emission rates shall be demonstrated by gas sulfur analysis of treated digester gas, mass balance calculations, and amount of digester gas burned in the engine at least once every 24 months. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from this IC engine shall not exceed any of the following limits: 50 ppmvd NO_x @ 15% O₂ (equivalent to 1.60E-03 lb-NO_x/hp-hr), 5.0E-04 lb-SO_x/hp-hr, 8.0E-05 lb-PM₁₀/hp-hr, 344 ppmvd CO @ 15% O₂ (equivalent to 6.71E-03 lb-CO/hp-hr), or 52 ppmvd VOC (as methane) @ 15% O₂ (equivalent to 5.5E-04 lb-VOC/hp-hr). [District Rules 2201, 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. 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, and 40 CFR 63 Subpart ZZZZ] 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. 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 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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
13. 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 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted not less than once every 24 months. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. 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
16. 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
17. 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; VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100; Determination of total sulfur as hydrogen sulfide (H₂S) content - EPA Method 11 or EPA Method 15. EPA approved alternative test methods may also be used to satisfy the source testing requirements of this permit with prior written approval from the APCO. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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
19. Source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [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. 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, and 40 CFR 63 Subpart ZZZZ] 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.

22. The permittee shall update the I&M plan (i.e. monthly NOx, CO, and O2 emissions monitoring with a portable analyzer) 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
23. 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) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
24. The permittee shall maintain records of daily digester gas and natural gas usage. [District Rule 2201] Federally Enforceable Through Title V Permit
25. 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, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
26. On and after October 19, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
27. On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
28. On and after October 19, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
29. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
30. On and after October 19, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
31. On and after October 19, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
32. On and after October 19, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] 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.

33. On and after October 19, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-984-14-1

EQUIPMENT DESCRIPTION:
FIVE WASTEWATER PRIMARY SEDIMENTATION BASINS

EXPIRATION DATE: 03/31/2015

DRAFT

PERMIT UNIT REQUIREMENTS

- I. See facility wide permit for requirements applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-984-15-1

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:
FOUR WASTEWATER TRICKLING FILTERS AND LIFT PUMPS

DRAFT

PERMIT UNIT REQUIREMENTS

1. See facility wide permit for requirements applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-984-16-1

EQUIPMENT DESCRIPTION:
FOUR WASTEWATER AERATION BASINS

EXPIRATION DATE: 03/31/2015

DRAFT

PERMIT UNIT REQUIREMENTS

1. See facility wide permit for requirements applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-984-17-1

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:
FIVE WASTEWATER SECONDARY SEDIMENTATION BASINS

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PERMIT UNIT REQUIREMENTS

1. See facility wide permit for requirements applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-18-1

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

821 BHP VOLVO MODEL TAD1642GE TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

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 exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 40 CFR Part 60 Subpart IIII, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR Part 60 Subpart IIII, and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. Emissions from this IC engine shall not exceed any of the following limits: 3.9 g-NOx/bhp-hr, 0.544 g-CO/bhp-hr, or 0.119 g-VOC/bhp-hr. [District Rule 2201, 40 CFR Part 60 Subpart IIII, and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.073 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 40 CFR Part 60 Subpart IIII, and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR Part 60 Subpart IIII, and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 40 CFR Part 60 Subpart IIII, and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-19-1

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 86 BHP CATERPILLAR MODEL 3054T TIER 0 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE S-984

PERMIT UNIT REQUIREMENTS

1. By January 1, 2020 this engine must be modified or replaced to meet one of the following: 1) Tier 4 emission standards for newly manufactured nonroad engines; 2) The engine is equipped with a properly functioning level-3 verified technology; or 3) The engine is equipped with a combination of verified emission control strategies that have been verified together to achieve at least 85% reduction in diesel PM emissions. An Authority to Construct (ATC) from the District is required prior to modification or replacement. [17 CCR 93116]
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
5. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 7.12 g-NOx/bhp-hr, 1.24 g-CO/bhp-hr, or 0.47 g-VOC/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.497 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
9. This engine shall not be operated closer than 1,715 feet (522.73 meters) from any off-site business or residence. [District Rule 4102]
10. The engine injection timing shall be retarded by at least 4 degrees relative to standard. [District Rule 2201] Federally Enforceable Through Title V Permit
11. This engine shall be equipped with a turbocharger and intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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
13. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [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.

14. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702] Federally Enforceable Through Title V Permit
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
16. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
18. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93116] 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 and 17 CCR 93116] Federally Enforceable Through Title V Permit

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

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Attachment A

Detailed Permit Listing

Detailed Facility Report
For Facility=984 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

VISALIA WASTEWATER TREATMENT 7579 AVENUE 288 VISALIA, CA 93277	FAC # STATUS: TELEPHONE:	S 984 A 5597134467	TYPE: TOXIC ID:	TitleV 50055	EXPIRE ON: AREA: INSP. DATE:	03/31/2015 1 / 316 07/13
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-984-5-1	14,900 kBtu/hr	3020-02 G	1	815.00	815.00	A	SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSIST GAS FLARE
S-984-10-3	620 BHP DIGESTER/NATURAL GAS-FIRED IC ENGINE	3020-10 D	1	479.00	479.00	A	620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER
S-984-11-0	1550 hp	3020-10 F	1	749.00	749.00	A	1,550 BHP KOHLER SPECTRUM DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-984-13-3	620 BHP DIGESTER/NATURAL GAS-FIRED IC ENGINE	3020-10 D	1	479.00	479.00	A	620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-984-14-0	63.75 Total Hp	3020-01 C	1	197.00	197.00	A	FIVE WASTEWATER PRIMARY SEDIMENTATION BASINS
S-984-15-0	51 Total Hp	3020-01 C	1	197.00	197.00	A	FOUR WASTEWATER TRICKLING FILTERS AND LIFT PUMPS
S-984-16-0	Aeration Basins	3020-06	1	105.00	105.00	A	FOUR WASTEWATER AERATION BASINS
S-984-17-0	23.75 Total Hp	3020-01 A	1	87.00	87.00	A	FIVE WASTEWATER SECONDARY SEDIMENTATION BASINS
S-984-18-0	821 bhp IC engine	3020-10 E	1	602.00	602.00	A	821 BHP VOLVO MODEL TAD1642GE TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-984-19-0	86 bhp IC engine	3020-10 A	1	80.00	80.00	A	TRANSPORTABLE 86 BHP CATERPILLAR MODEL 3054 T TIER 0 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE S-984

Number of Facilities Reported: 1

Attachment B

Insignificant Activities or Equipment

**San Joaquin Valley
Unified Air Pollution Control District
Title V Application - INSIGNIFICANT ACTIVITIES**

COMPANY NAME: Visalia Wastewater Treatment Plant

FACILITY ID: S - 984

Check the box next to the exemption category from Rule 2020 which describes any insignificant activity or equipment at your facility not requiring a permit.

Exemption Category	Rule 2020 Citation	✓	Exemption Category	Rule 2020 Citation	✓
Structure or incinerator assoc. with a structure designed as a dwelling for 4 families or less	4.1		Containers used to store refined lubricating oils	6.6.8	✓
Locomotives, airplanes, and watercraft used to transport passengers or freight	4.4		Unvented pressure vessels used exclusively to store liquefied gases or assoc with exempt equipment	6.6.9 or 6.13	✓
Natural gas or LPG-fired boilers or other indirect heat transfer units of 5 MMBtu/hr or less	6.1.1	✓	Portable tanks used exclusively to store produced fluids for ≤ six months	6.6.10	
Piston-type i.c. engine with maximum continuous rating of 50 braking horsepower (bhp) or less	6.1.2	✓	Mobile transport tanks on delivery vehicles of VOCs	6.6.11	
Gas turbine engines with maximum heat input rating of 3 MMBtu/hr or less	6.1.3		Loading racks used for the transfer of less than 4,000 gal/day of unheated organic material with initial boiling point ≥ 302 F or of fuel oil with specific gravity ≥ 0.8251	6.7.1.1	
Space heating equipment other than boilers	6.1.4	✓	Loading racks used for the transfer of asphalt, crude or residual oil stored in exempt tanks, or crude oil with specific gravity ≥ 0.8762	6.7.1.2	
Cooling towers with a circulation rate less than 10,000 gal/min, and that are not used for cooling of process water, or water from barometric jets or condensers++	6.2		Equipment used exclusively for the transfer of refined lubricating oil	6.7.2	
Use of less than 2 gal/day of graphic arts materials	6.3		Equipment used to apply architectural coatings	6.8.1	✓
Equipment at retail establishments used to prepare food for human consumption	6.4.1		Unheated, non-conveyORIZED cleaning equipment with < 10 ft ² open area; using solvents with initial boiling point ≥ 248 F; and < 25 gal/yr. evaporative losses	6.9	
Ovens at bakeries with total daily production less than 1,000 pounds and exempt by sec. 6.1.1	6.4.3		Brazing, soldering, or welding equipment	6.10	✓
Equipment used exclusively for extruding or compression molding of rubber or plastics, where no plasticizer or blowing agent is used	6.5		Equipment used to compress natural gas	6.11	
Containers used to store clean produced water	6.6.1		Fugitive emissions sources assoc. with exempt equipment	6.12	✓
Containers ≤ 100 bbl used to store oil with specific gravity ≥ 0.8762	6.6.2		Pits and Ponds as defined in Rule 1020	6.15	✓
Containers ≤ 100 bbl installed prior to 6/1/89 used to store oil with specific gravity ≥ 0.8762	6.6.3		On-site roadmix manufacturing and the application of roadmix as a road base material	6.17	
Containers with a capacity ≤ 250 gallons used to store organic material where the actual storage temperature < 150 F	6.6.4	✓	Emissions less than 2 lb/day from units not included above	6.19	✓
Containers used to store unheated organic material with an initial boiling point ≥ 302 F	6.6.5	✓	Venting PUC quality natural gas from for sole purpose of pipeline and compressor repair and or maintenance	7.2	
Containers used to store fuel oils or non-air-blown asphalt with specific gravity ≥ 0.9042	6.6.6		Non-structural repairs & maintenance to permitted equipment	7.3	✓
Containers used to store petroleum distillates used as motor fuel with specific gravity ≥ 0.8251	6.6.7		Detonation of explosives ≤ 100 lb/day and 1,000 lb/year	7.4	

No insignificant activities (Check this box if no equipment in the above categories exist at your facility.)

Attachment C

Current District PTOs



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



Permit to Operate

FACILITY: S-984

EXPIRATION DATE: 03/31/2015

LEGAL OWNER OR OPERATOR:
MAILING ADDRESS:

VISALIA WASTEWATER TREATMENT
VISALIA WASTEWATER TREATMENT PLANT
7579 AVENUE 288
VISALIA, CA 93277

FACILITY LOCATION:

7579 AVENUE 288
VISALIA, CA 93277

FACILITY DESCRIPTION:

WASTEWATER TREATMENT

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-984-0-0

EXPIRATION DATE: 03/31/2015

FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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

Facility Name: VISALIA WASTEWATER TREATMENT
Location: 7579 AVENUE 288, VISALIA, CA 93277

S-984-0-0 : Sep 27 2012 9:27AM - LEONARDS

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-5-1

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR
EXCESS METHANE NON-ASSIST GAS FLARE

PERMIT UNIT REQUIREMENTS

1. H₂S content of digester gas flared shall not exceed 200 ppmv. [District Rule 2201]
2. Net heating value of the gas being combusted shall be 200 Btu/scf or greater. [District Rule 4311, 5.6 and 40 CFR 60.18 (c)(3)(ii)]
3. Emission rates from the flares shall not exceed any of the following limits: NO_x (as NO₂) - 0.068 lb/MMBtu; VOC (as methane) - 0.063 lb/MMBtu; CO - 0.370 lb/MMBtu; or PM₁₀ - 0.026 lb/MMBtu. [District Rule 2201]
4. The flares shall be designed for and operated with no visible emissions except for periods not to exceed a total of three (3) minutes in any one (1) hour. [District Rule 4101, 5.1 and 40 CFR 60.18(c)(1)]
5. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [District Rule 4311, 5.6 and 40CFR 60.18(f)(1)]
6. The flame shall be present at all times when combustible gases are vented through the flares. [District Rule 4311, 5.2 and 40CFR 60.18(c)(2)]
7. The flares shall operate with a pilot flame present at all times. [District Rule 4311, 5.3 and 40CFR 60.18(f)(2)]
8. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 5.4 and 40CFR 60.18(f)(2)]
9. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311, 5.6]
10. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 4311, 5.6 and 40CFR 60.18(d)]
11. The flares shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max}, as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [District Rule 4311, 5.6 and 40 CFR 60.18 (c)(3)(i)(a)]
12. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (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)]
13. The flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [District Rule 4311, 5.6 and 40 CFR 60.18 (c)(4)(i)]
14. The flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [District Rule 4311, 5.6 and 40 CFR 60.18 (c)(4)(ii)]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. The flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [District Rule 4311, 5.6 and 40 CFR 60.18 (c)(4)(iii)]
16. The net heating value of the gas being combusted by the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [District Rule 4311, 5.6 and 40 CFR 60.18 (f)(3)]
17. 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 4311, 6.2]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-10-3

EXPIRATION DATE: 03/31/2015

SECTION: NE06 **TOWNSHIP:** 19S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS-FIRED IC ENGINE WITH FUEL SCRUBBER POWERING A BLOWER

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with a Hilco Oil Mist Eliminator, which shall be at least 90% efficient in controlling crankcase VOC emissions. [District Rule 2201]
2. This engine shall be equipped with a nonresettable fuel meter and a nonresettable elapsed operating time meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rules 2201 and 4702]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. 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]
5. This engine shall only be fired on digester waste gas and/or PUC-regulated natural gas. [District Rules 2201 and 4801]
6. Total quantity of natural gas and digester gas usage shall not exceed 175,200 scf/day. [District Rule 2201]
7. The digester gas shall be treated with ferric/ferrous dry hydrogen H₂S scrubber before being used as a fuel in the engine. [District Rule 2201]
8. The H₂S content of the digester gas used as a fuel in the engine shall not exceed 200 ppmvd. [District Rules 2201 and 4801]
9. Compliance with sulfur compounds emission rates shall be demonstrated by gas sulfur analysis of treated digester gas, mass balance calculations, and amount of digester gas burned in the engine at least once every 24 months. [District Rules 2201 and 4801]
10. Emissions from this IC engine shall not exceed any of the following limits: PM₁₀: 8.0E-05 lb/hp-hr, NO_x (as NO₂): 65 ppmvd at 15% O₂, VOC: 196 ppmvd (as methane) at 15% O₂ and CO: 308 ppmvd at 15% O₂. [District Rules 2201 and 4702]
11. 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]

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

12. 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]
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]
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]
15. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted not less than once every 24 months. [District Rule 4702]
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]
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]
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 ARB Method 100. EPA approved alternative test methods may also be used to satisfy the source testing requirements of this permit with prior written approval from the APCO. [District Rule 4702]
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]
20. Source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [District Rule 1081]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. 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]
23. The permittee shall update the I&M plan (i.e. monthly NO_x, CO, and O₂ emissions monitoring with a portable analyzer) 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]

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

24. 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) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702]
25. The permittee shall maintain records of daily digester gas and natural gas usage. [District Rule 2201]
26. 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]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-11-0

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

1,550 BHP KOHLER SPECTRUM DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District Rule 2201]
2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District Rule 2201]
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. 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]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
9. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
10. If this engine is located on the grounds of a K-12 school, or if this engine is located within 500 feet of the property boundary of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, between 7:30 a.m. and 3:30 p.m. on days when school is in session. [17 CCR 93115]
11. If this engine is located on the grounds of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, whenever there is a school sponsored activity. [17 CCR 93115]
12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
13. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
15. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]
16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
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 and 17 CCR 93115]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-13-3

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

620 BHP WAUKESHA MODEL 3521GL LEAN BURN DIGESTER/NATURAL GAS FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with a Hilco Oil Mist Eliminator, which shall be at least 90% efficient in controlling crankcase VOC emissions. [District Rule 2201]
2. This engine shall be equipped with a nonresettable fuel meter and a nonresettable elapsed operation time meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacture. [District Rules 2201 and 4702]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. 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]
5. This engine shall only be fired on digester waste gas and/or PUC-regulated natural gas. [District Rules 2201 and 4801]
6. The digester gas usage shall not exceed 219,024 scf/day. [District Rule 2201]
7. The digester gas shall be treated with ferric/ferrous dry hydrogen H₂S scrubber before being used as a fuel in the engine. [District Rule 2201]
8. The H₂S content of the digester gas used as a fuel in the engine shall not exceed 200 ppmvd. [District Rules 2201 and 4801]
9. Compliance with sulfur compounds emission rates shall be demonstrated by gas sulfur analysis of treated digester gas, mass balance calculations, and amount of digester gas burned in the engine at least once every 24 months. [District Rules 2201 and 4801]
10. Emissions from this IC engine shall not exceed any of the following limits: 50 ppmvd NO_x @ 15% O₂ (equivalent to 1.60E-03 lb-NO_x/hp-hr), 5.0E-04 lb-SO_x/hp-hr, 8.0E-05 lb-PM₁₀/hp-hr, 344 ppmvd CO @ 15% O₂ (equivalent to 6.71E-03 lb-CO/hp-hr), or 52 ppmvd VOC (as methane) @ 15% O₂ (equivalent to 5.5E-04 lb-VOC/hp-hr). [District Rules 2201 and 4702]
11. 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]

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

12. 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]
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]
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]
15. Source testing to measure natural gas-combustion NO_x, CO, and VOC emissions from this unit shall be conducted not less than once every 24 months. [District Rule 4702]
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]
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]
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 ARB Method 100. EPA approved alternative test methods may also be used to satisfy the source testing requirements of this permit with prior written approval from the APCO. [District Rule 4702]
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]
20. Source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [District Rule 1081]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. 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]
23. The permittee shall update the I&M plan (i.e. monthly NO_x, CO, and O₂ emissions monitoring with a portable analyzer) 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. 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) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702]
25. The permittee shall maintain records of daily digester gas and natural gas usage. [District Rule 2201]
26. 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]

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

**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-984-14-0

EXPIRATION DATE: 03/31/2015

**EQUIPMENT DESCRIPTION:
FIVE WASTEWATER PRIMARY SEDIMENTATION BASINS**

PERMIT UNIT REQUIREMENTS

See facility-wide requirements for permit conditions applicable to this permit unit.

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

**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-984-15-0

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

FOUR WASTEWATER TRICKLING FILTERS AND LIFT PUMPS

PERMIT UNIT REQUIREMENTS

See facility-wide requirements for permit conditions applicable to this permit unit.

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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-984-16-0

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:
FOUR WASTEWATER AERATION BASINS

PERMIT UNIT REQUIREMENTS

See facility-wide requirements for permit conditions applicable to this permit unit.

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

**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-984-17-0

EXPIRATION DATE: 03/31/2015

**EQUIPMENT DESCRIPTION:
FIVE WASTEWATER SECONDARY SEDIMENTATION BASINS**

PERMIT UNIT REQUIREMENTS

See facility-wide requirements for permit conditions applicable to this permit unit.

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-18-0

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

821 BHP VOLVO MODEL TAD1642GE TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. 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]
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
6. 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]
7. Emissions from this IC engine shall not exceed any of the following limits: 3.9 g-NOx/bhp-hr, 0.544 g-CO/bhp-hr, or 0.119 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.073 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
12. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
13. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
15. 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 and 17 CCR 93115]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-19-0

EXPIRATION DATE: 03/31/2015

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 86 BHP CATERPILLAR MODEL 3054 T TIER 0 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE S-984

PERMIT UNIT REQUIREMENTS

1. By January 1, 2020 this engine must be modified or replaced to meet one of the following: 1) Tier 4 emission standards for newly manufactured nonroad engines; 2) The engine is equipped with a properly functioning level-3 verified technology; or 3) The engine is equipped with a combination of verified emission control strategies that have been verified together to achieve at least 85% reduction in diesel PM emissions. An Authority to Construct (ATC) from the District is required prior to modification or replacement. [17 CCR 93116]
2. 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]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
5. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93116]
7. Emissions from this IC engine shall not exceed any of the following limits: 7.12 g-NOx/bhp-hr, 1.24 g-CO/bhp-hr, or 0.47 g-VOC/bhp-hr. [District Rule 2201]
8. Emissions from this IC engine shall not exceed 0.497 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102]
9. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
10. This engine shall not be operated closer than 1,715 feet (522.73 meters) from any off-site business or residence. [District Rule 4102]
11. The engine injection timing shall be retarded by at least 4 degrees relative to standard. [District Rule 2201]
12. This engine shall be equipped with a turbocharger and intercooler. [District Rule 2201]
13. 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]
14. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702]
16. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
17. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
18. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
19. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93116]
20. 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]

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

Attachment D

Template Qualification Form

Template SJV-UM-0-3

Title V General Permit Template Qualification Form
for
Facility-wide Umbrella General Permit Template

District facility ID # S-984

To use this template, remove this sheet and attach to application. The conditions outlined in this template will be placed on your Title V permit.

Any facility may use this facility-wide template as part of its Title V application.

Based on information and belief formed after reasonable inquiry: 1) the information on this form is true and correct and 2) the facility certifies compliance with this template's permit conditions.

Jeffrey B. Misenhimer
Signature of Responsible Official

2/28/2012
Date

Jeffrey B. Misenhimer
Name of Responsible Official (Please Print)