



**MAR 29 2012**

Lewis Nelson  
Tulare City Wastewater Plant  
1875 S. West St.  
Tulare, CA 93274-9488

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # S-548  
Project # S-1104825**

Dear Mr. Nelson:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Tulare City Wastewater Plant for its domestic and industrial wastewater treatment facility, 1875 S. West St, Tulare, 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner  
Director of Permit Services

Attachments

C: Juscelino Siongco, Permit Services Engineer

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

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

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
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**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



**MAR 29 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 – Title V Permit Renewal  
District Facility # S-548  
Project # S-1104825**

Dear Mr. Rios:

Enclosed for your review and comment is the District’s analysis of the application to renew the Federally Mandated Operating Permit for Tulare City Wastewater Plant for its domestic and industrial wastewater treatment facility, 1875 S. West St, Tulare, 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Attachments

C: Juscelino Siongco, Permit Services Engineer

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

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**MAR 29 2012**

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

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # S-548  
Project # S-1104825**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Tulare City Wastewater Plant for its domestic and industrial wastewater treatment facility, 1875 S. West St, Tulare, 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner  
Director of Permit Services

Attachments

C: Juscelino Siongco, Permit Services Engineer

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

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**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED RENEWAL OF  
THE FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Tulare City Wastewater Plant for its domestic and industrial wastewater treatment facility, 1875 S. West St, Tulare, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1104825, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. 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 renewal of the Federally Mandated Operating permit. If requested by the public, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed renewed 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 AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation  
Tulare City Wastewater Plant  
S-548

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**TITLE V PERMIT RENEWAL EVALUATION**  
**Wastewater Treatment Plant**

**Engineer:** Juscelino Siongco  
**Date:** February 29, 2012

**Facility Number:** S-548  
**Facility Name:** Tulare City Wastewater Plant  
**Mailing Address:** 1875 S West Street  
Tulare, CA 93274

**Contact Name:** Lewis Nelson  
**Phone:** (559) 684-4318

**Responsible Official:** Lewis Nelson  
**Title:** Public Works Director

**Project # :** S-1104825  
**Deemed Complete:** November 15, 2010

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**I. PROPOSAL**

Tulare City Wastewater Plant was issued a Title V permit on September 30, 2005. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

**II. FACILITY LOCATION**

Tulare City Wastewater Plant is located at 1875 S West St, Tulare, CA 93274.

### III. EQUIPMENT LISTING

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

### IV. GENERAL PERMIT TEMPLATE USAGE

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

#### A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

### V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed 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.

Conditions 2 through 41 of the requirements for Facility-Wide Permit S-548-0-2.

### VI. FEDERALLY ENFORCEABLE REQUIREMENTS

#### A. Rules Updated

- District Rule 2020, Exemptions (Amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended April 21, 2011)

- District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3 (Amended October 16, 2008)
- District Rule 4311, Flares (Amended June 18, 2009)
- District Rule 4601, Architectural Coatings<sup>1</sup> (Amended December 17, 2009)
- District Rule 4702, Internal Combustion Engines (Amended August 18, 2011)

#### **B. Rules Added**

- District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater Than 5.0 MMBtu/hr (Adopted October 16, 2008)
- 40 CFR Part 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 for Stationary Reciprocating Internal Combustion Engines

#### **C. Rules Not Updated**

- 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 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)

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<sup>1</sup> The Umbrella General Template addressed the updated requirements for this rule.

- District Rule 2520, Federally Mandated Operating Permits (Amended June 21, 2001 )
- District Rule 4101, Visible Emissions (Amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (Amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (Amended December 17, 1992)
- District Rule 4305, Boilers, Steam Generators, Process Heaters (Amended August 21, 2003)
- District Rule 4701, Internal Combustion Engines – Phase 1 (Amended August 21, 2003)
- District Rule 4801, Sulfur Compounds (Amended December 17, 1992)
- District Rule 8011, General Requirements (Amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, 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 September 16, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (Amended September 16, 2004)
- 40 CFR Part 60, Subpart A, General Provisions
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR Part 64, Compliance Assurance Monitoring

- 40 CFR Part 82, Subpart F, Stratospheric Ozone

#### **D. Rule Not Applicable**

- 40 CFR Part 60, Subpart O, Standards of Performance for Sewage Treatment Plants

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

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

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

#### **A. District Rule 4102, Nuisance**

1. S-548-0-2 – Facility-Wide Requirements
  - Condition 1 on the proposed permit is based on this rule and will therefore not be discussed any further.
2. S-548-16-2 – 119 bhp Perkins 3054TA Diesel-Fired Emergency IC Engine Powering a Wastewater Pump
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
3. S-548-20-2 – Ten Wastewater Treatment Retention/Percolation Ponds
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
4. S-548-24-1 – 300 kW Fuelcell Energy DCF300MA Biogas Fuel Cell with Applied Filter Technology H<sub>2</sub>S Removal System Serving S-548-24, -25, -26, and -35
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.

5. S-548-25-1 – 300 kW Fuelcell Energy DCF300MA Biogas Fuel Cell
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
6. S-548-26-1 – 300 kW Fuelcell Energy DCF300MA Biogas Fuel Cell
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
7. S-548-28-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
8. S-548-29-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
9. S-548-30-1 – 2922 bhp Cummins Model QSK60-G6 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
10. S-548-32-1 – 6.3 MMBtu/hr Hurst Series 100 Digester/Natural Gas-Fired Sludge Heater with a Power Flame L NINVCR5-GG-30A Burner
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.
11. S-548-35-1 – 300 kW Fuelcell Energy DCF300MA Biogas Fuel Cell
  - Condition 1 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 1.

## VIII. PERMIT REQUIREMENTS

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

### A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment, which are specifically exempt from obtaining permits, and specifies recordkeeping requirements to verify such exemptions. The rule was amended in August 18, 2011. The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation.

### B. District Rule 2201 - New and Modified Stationary Source Review Rule

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- 4) Addition of any new emissions unit which is subject to District permitting requirements.
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable at this time.

The following are revisions to the permit equipment descriptions.

1. S-548-9-3 – 116 bhp Cummins 4BTA3.9-C Diesel-Fired Emergency IC Engine Powering a Water Well Pump

- The terms turbocharger and intercooler/aftercooler in the current permit equipment description are removed since the terms are stated in condition 1 of the current and proposed permits.
2. S-548-24-1 – 300 kW Fuelcell Energy DCF300MA Biogas Fuel Cell with Applied Filter Technology H<sub>2</sub>S Removal System Serving S-548-24, -25, -26, and -35
    - Reference to the H<sub>2</sub>S removal system serving permit unit S-548-35 is added to the proposed permit since under Project #S-1104219, permit unit S-548-35 is served by the H<sub>2</sub>S removal system.

### **C. 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 (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

### **D. District Rule 4101 – Visible Emissions**

The purpose of this rule is to prohibit the emissions of visible air contaminants to the atmosphere.

1. S-548-3-4 – 670 bhp Waukesha Model L5808GL Biogas-Fired Lean Burn IC Engine with H<sub>2</sub>S Scrubber Powering an Electric Generator
  - Condition 2 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
2. S-548-5-2 – Varac Model 244-W Biogas Flare
  - Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
3. S-548-7-4 – 900 bhp Caterpillar Model D348 V-12 S/N 36J1780 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 2 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.

4. S-548-9-3 – 116 bhp Cummins 4BTA3.9-C Diesel-Fired Emergency IC Engine Powering a Water Well Pump
  - Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
5. S-548-10-3 – 171 bhp Cummins Model 6BT5.9G6 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 6 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
6. S-548-11-3 – 1502 bhp Caterpillar Model 3508B Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 4 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
7. S-548-16-2 – 119 bhp Perkins 3054TA Diesel-Fired Emergency IC Engine Powering a Wastewater Pump
  - Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
8. S-548-28-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
9. S-548-29-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.
10. S-548-30-1 – 2922 bhp Cummins Model QSK60-G6 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

- Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.

11. S-548-32-1 – 6.3 MMBtu/hr Hurst Series 100 Digester/Natural Gas-Fired Sludge Heater with a Power Flame L NINVCR5-GG-30A Burner

- Condition 3 on the current permit is based on this rule and is moved to the proposed Facility-Wide Permit, S-548-0-2, as condition 23.

**E. District Rule 4306 – Boilers, Steam Generators, and Process Heaters – Phase 3**

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from any gaseous fuel or liquid fuel fired boilers, steam generators, and process heaters with a rated heat input greater than 5 million Btu per hour. The rule was amended in October 16, 2008.

The following permit requirements ensure compliance with the amended rule:

1. S-548-32-1 – 6.3 MMBtu/hr Hurst Series 100 Digester/Natural Gas-Fired Sludge Heater with a Power Flame L NINVCR5-GG-30A Burner

- Conditions 2, 4 through 7, and 10 through 14 on the proposed permit comply with this rule.

**F. District Rule 4311 – Flares**

The purpose of this rule is to limit the emissions of volatile organic compounds (VOC), oxides of nitrogen (NO<sub>x</sub>), and sulfur oxides (SO<sub>x</sub>) from the operation of flares. The rule was amended in June 18, 2009.

The following permit requirements ensure compliance with the amended rule.

1. S-548-5-2 – Varac Model 244-W Biogas Flare

- Conditions 11, 12, 13, 14, 15, and 25 on the proposed permit comply with this rule.

2. S-548-33-1 – Three Anaerobic Digesters Served by a Digester Gas H<sub>2</sub>S Removal System and a Flare Industries Model 566 12.4 MMBtu/hr Ground Level Enclosed Flare

- Conditions 4 and 10 through 17 on the proposed permit comply with this rule.

**G. District Rule 4320 – Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr**

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

The purpose of this rule is to limit the emissions of oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), oxides of sulfur (SO<sub>2</sub>), and particulate matter 10 microns or less (PM<sub>10</sub>) from boilers, steam generators, and process heaters.

Section 5.1 states that operators of a unit(s) shall comply with all applicable requirements of the rule and one of the following, on a unit-by-unit basis:

Section 5.1.1 requires the unit comply with the emission limits specified in Sections 5.2 and 5.4; or

Section 5.1.2, Pay an annual emissions fee to the District as specified in Section 5.3 and comply with the control requirements specified in Section 5.4; or

Section 5.1.3, Comply with the applicable Low-use Unit requirements of Section 5.5.

The facility proposes to comply with Section 5.1.1 by complying with the emission limits specified in Sections 5.2 and 5.4.

Section 5.4 states the particulate matter control requirements.

5.4.1 To limit particulate matter emissions, an operator shall comply with one of the following requirements:

5.4.1.1 On and after the applicable NO<sub>x</sub> Compliance Deadline specified in Section 5.2 Table 1, operators shall fire units exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases;

5.4.1.2 On and after the applicable NO<sub>x</sub> Compliance Deadline specified in Section 5.2 Table 1, operators shall limit fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or

5.4.1.3 On and after the applicable NO<sub>x</sub> Compliance Deadline specified in Section 5.2 Table 1, operators shall install and properly operate an emission control system that reduces SO<sub>2</sub> emissions by at least 95% by weight; or limit exhaust SO<sub>2</sub> to less than or equal to 9 ppmv corrected to 3.0% O<sub>2</sub>.

5.4.1.4 Notwithstanding the compliance deadlines indicated in Sections 5.4.1.1 through 5.4.1.3, refinery units, which require modification of refinery equipment to reduce sulfur emissions, shall be in compliance with the applicable requirement in Section 5.4.1 no later than July 1, 2013.

5.4.2 Liquid fuel shall be used only during PUC quality natural gas curtailment periods, provided the requirements of Sections 4.2 and 6.1.5 are met and the fuel contains no more than 15 ppm sulfur, as determined by the test method specified in Section 6.2.

The facility will comply with the requirements of Section 5.4 by firing on PUC regulated natural gas.

The facility has been issued ATC #S-548-32-3 to comply with the requirements of this rule. This ATC will have to be implemented prior to July 1, 2012 to meet the compliance deadline of Table 1, category (A)(a) of the rule.

1. S-548-32-1 – 6.3 MMBtu/hr Hurst Series 100 Digester/Natural Gas-Fired Sludge Heater with a Power Flame L NINVCR5-GG-30A Burner
  - Condition 15 on the proposed permit is added to ensure that ATC #S-548-32-3 will be implemented prior to July 1, 2012 to comply with this rule.

#### **H. District Rule 4702, Internal Combustion Engines**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. This rule applies to any internal combustion (IC) engine with a rated brake horsepower greater than 50 horsepower. The rule was amended in August 18, 2011.

The following permit requirements ensure compliance with the amended rule.

1. S-548-3-4 – 670 bhp Waukesha Model L5108GL Biogas-Fired Lean Burn IC Engine with H<sub>2</sub>S Scrubber Powering an Electric Generator
  - Conditions 2 through 14, 17, 18, and 19 on the proposed permit comply with this rule.
2. S-548-7-4 – 900 bhp Caterpillar Model D348 V-12 S/N 36J1780 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 6 through 12 on the proposed permit comply with this rule.
3. S-548-9-3 – 116 bhp Cummins 4BTA3.9-C Diesel-Fired Emergency IC Engine Powering a Water Well Pump
  - Conditions 5, 6, and 8 through 12 on the proposed permit comply with this rule.
4. S-548-10-3 – 171 bhp Cummins Model 6BT5.9G6 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 8, 9, and 11 through 17 on the proposed permit comply with this rule.
5. S-548-11-3 – 1502 bhp Caterpillar Model 3508B Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 7, 8, and 10 through 16 on the proposed permit comply with this rule.
6. S-548-14-3 – 80 bhp John Deere Model 4045DF150 Diesel-Fired Emergency IC Engine Powering a Water Pump
  - Conditions 8, 9, 11, 12, 14, and 15 on the proposed permit comply with this rule.
7. S-548-16-2 – 119 bhp Perkins 3054TA Diesel-Fired Emergency IC Engine Powering a Wastewater Pump
  - Conditions 4, 6, 7, 9, 10, 12, and 13 on the proposed permit comply with this rule.

8. S-548-28-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 4 and 7 through 13 on the proposed permit comply with this rule.
9. S-548-29-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 4 and 7 through 13 on the proposed permit comply with this rule.
10. S-548-30-1 – 2922 bhp Cummins Model QSK60-G6 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 4 and 7 through 13 on the proposed permit comply with this rule.

**I. 40 CFR 60, Subpart O, Standards of Performance for Sewage Treatment Plants**

This subpart is applicable to incinerators that combust wastes containing more than 10 percent sewage sludge (dry basis) produced by municipal sewage treatment plants, or each incinerator that charges more than 1,000 kg per day municipal sewage sludge. This facility does not incinerate sewage sludge, so this NSPS is not applicable.

**J. 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

The provisions of this subpart are applicable to owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 and are not fire pump engines.

The following permit requirements ensure compliance with this rule.

1. S-548-28-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 3, 4, 5, 6, 7, and 9 on the proposed permit comply with this rule.
2. S-548-29-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 3, 4, 5, 6, 7, and 9 on the proposed permit comply with this rule.
3. S-548-30-1 – 2922 bhp Cummins Model QSK60-G6 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
  - Conditions 3, 4, 5, 6, 7, and 9 on the proposed permit comply with this rule.

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

This subpart 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. The rule was amended in March 9, 2011.

§63.6585(c) defines an area source of HAP emissions as a source that is not a major source. The facility is an area source of HAP emissions.

The following permit requirements ensure compliance with the amended rule.

1. S-548-3-4 – 670 bhp Waukesha Model L5108GL Biogas-Fired Lean Burn IC Engine with H<sub>2</sub>S Scrubber Powering an Electric Generator
  - Conditions 2 and 19 through 28 on the proposed permit comply with this rule.
2. S-548-7-4 – 900 bhp Caterpillar Model D348 V-12 S/N 36J1780 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

- Conditions 3, 6, and 12 through 19 on the proposed permit comply with this rule.
3. S-548-9-3 – 116 bhp Cummins 4BTA3.9-C Diesel-Fired Emergency IC Engine Powering a Water Well Pump
    - Conditions 5, 8, and 13 through 20 on the proposed permit comply with this rule.
  4. S-548-10-3 – 171 bhp Cummins Model 6BT5.9G6 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
    - Conditions 8 and 16 through 24 on the proposed permit comply with this rule.
  5. S-548-11-3 – 1502 bhp Caterpillar Model 3508B Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
    - Conditions 7, 13, 14, and 17 through 23 on the proposed permit comply with this rule.
  6. S-548-14-3 – 80 bhp John Deere Model 4045DF150 Diesel-Fired Emergency IC Engine Powering a Water Pump
    - Conditions 8 and 14 through 22 on the proposed permit comply with this rule.
  7. S-548-16-2 – 119 bhp Perkins 3054TA Diesel-Fired Emergency IC Engine Powering a Wastewater Pump
    - Conditions 6 and 12 through 20 on the proposed permit comply with this rule.

#### **L. 40 CFR Part 64, Compliance Assurance Monitoring**

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
  - 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers;
- and

- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.
1. S-548-3-4 – 670 bhp Waukesha Model L5108GL Biogas-Fired Lean Burn IC Engine with H<sub>2</sub>S Scrubber Powering an Electric Generator

This engine has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The engine does not have add-on control devices as defined by the rule for the regulated air pollutants NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. Therefore, the engine is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC

The engine has an emissions limit for SO<sub>x</sub>. Although the unit is equipped with an H<sub>2</sub>S scrubber, the H<sub>2</sub>S scrubber's primary purpose is to remove as much of the H<sub>2</sub>S from the biogas fuel prior to combustion by the engine. This will minimize the formation of harmful corrosive sulfur dioxide during combustion of the biogas in the engine. This type of equipment is classified by the rule as inherent process equipment. Section 64.1 of the rule defines inherent process equipment as equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations.

Therefore, the H<sub>2</sub>S scrubber is not a control device as defined by the rule and the engine is not subject to CAM for SO<sub>x</sub>.

2. S-548-5-2 – Varac Model 244-W Biogas Flare

The facility's wastewater digesters generate biogas that is combusted by the Varac flare. The flare has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, and CO but is not a control device for these pollutants. Therefore CAM is not applicable to the flare for these criteria pollutants. The flare is a control device for VOC and it has an emissions limit of 2.5 lb-VOC/day. Assuming a destruction efficiency of 98% for VOC, the following calculations will determine if the pre-control potential is greater than 20,000 lb-VOC/yr, which is the major source threshold for VOC.

$$\begin{aligned} \text{Pre-control PE} &= (2.5 \text{ lb-VOC/day} \times 365 \text{ day/yr}) \div (1-0.98) \\ &= \mathbf{45,625 \text{ lb-VOC/yr} > 20,000 \text{ lb-VOC/yr}} \end{aligned}$$

Therefore, the digesters served by the Varac flare are subject to CAM for VOC.

Section 64.4(b) of the rule states that "if an owner or operator relies on presumptively acceptable monitoring, no further justification for the

appropriateness of that monitoring should be necessary other than an explanation of the applicability of such monitoring to the unit in question.” Presumptively acceptable monitoring includes monitoring identified in guidance by EPA.

EPA’s Technical Guidance Document: Compliance Assurance Monitoring, August 1998, Section 3.4, states that rules that require flares to meet 40 CFR 60.18 (general control device requirements) have been determined to be presumptively acceptable for CAM.

In addition, Section 64.3 (a)(2) requires the owner or operator to monitor the appropriate process operational parameters. The owner or operator shall monitor indicators to detect any bypass of the control device to the atmosphere.

The Varac biogas flare is required to meet 40 CFR 60.18 that is presumptively acceptable for CAM. The facility will monitor the flare’s emergency bypass valve on a daily basis to ensure that the flare is not bypassed and maintain records of the volume of biogas combusted in the flare.

- Conditions 9 through 13 and 15 through 26 on the proposed permit comply with this rule.

3. S-548-7-4 – 900 bhp Caterpillar Model D348 V-12 S/N 36J1780 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The unit has an emission limit for PM<sub>10</sub> only but it does not have add-on control for this criteria pollutant. Therefore, the unit is not subject to CAM for PM<sub>10</sub>.

4. S-548-9-3 – 116 bhp Cummins 4BTA3.9-C Diesel-Fired Emergency IC Engine Powering a Water Well Pump

The unit has emissions limits for NO<sub>x</sub> and PM<sub>10</sub> but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub> and PM<sub>10</sub>.

5. S-548-10-3 – 171 bhp Cummins Model 6BT5.9G6 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The unit has emissions limits for NO<sub>x</sub> and PM<sub>10</sub> but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub> and PM<sub>10</sub>.

6. S-548-11-3 – 1502 bhp Caterpillar Model 3508B Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The unit has emissions limits for NO<sub>x</sub> and PM<sub>10</sub> but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub> and PM<sub>10</sub>.

7. S-548-14-3 – 80 bhp John Deere Model 4045DF150 Diesel-Fired Emergency IC Engine Powering a Water Pump

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, and CO but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, and CO.

8. S-548-16-2 – 119 bhp Perkins 3054TA Diesel-Fired Emergency IC Engine Powering a Wastewater Pump

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

9. S-548-20-3 – Ten Wastewater Treatment Retention/Percolation Ponds

The unit does not have emissions limits for any criteria pollutants. Therefore, the emissions units are not subject to CAM.

10. S-548-24-1 – 300 kW Fuel Cell Energy DCF300MA Biogas Fuel Cell with Applied Filter Technology H<sub>2</sub>S Removal System Serving S-548-24, 25, 26

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for these criteria pollutants.

The unit has an emissions limit for SO<sub>x</sub>. Although the unit is equipped with an H<sub>2</sub>S scrubber, the H<sub>2</sub>S scrubber's primary purpose is to remove as much of the H<sub>2</sub>S from the biogas fuel prior to use by the fuel cell. This will prevent the corrosion of metal used inside the fuel cell. This type of add-on equipment is classified by the rule as inherent process equipment. Section 64.1 of the rule defines inherent process equipment as equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Therefore, the unit is not subject to CAM for SO<sub>x</sub>.

11. S-548-25-1 – 300 kW Fuel Cell Energy DCF300MA Biogas Fuel Cell

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for these criteria pollutants.

The unit has an emissions limit for SO<sub>x</sub>. Although the unit is served by the H<sub>2</sub>S scrubber in permit unit S-548-24, the H<sub>2</sub>S scrubber's primary purpose is to remove as much of the H<sub>2</sub>S from the biogas fuel prior to use by the fuel cell. This will prevent the corrosion of metal used inside the fuel cell. This type of add-on equipment is classified by the rule as inherent process equipment. Section 64.1 of the rule defines inherent process equipment as equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Therefore, the unit is not subject to CAM for SO<sub>x</sub>.

12. S-548-26-1 – 300 kW Fuel Cell Energy DCF300MA Biogas Fuel Cell

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for these criteria pollutants.

The unit has an emissions limit for SO<sub>x</sub>. Although the unit is served by the H<sub>2</sub>S scrubber in permit unit S-548-24, the H<sub>2</sub>S scrubber's primary purpose is to remove as much of the H<sub>2</sub>S from the biogas fuel prior to use by the fuel cell. This will prevent the corrosion of materials used inside the fuel cell. This type of add-on equipment is classified by the rule as inherent process equipment. Section 64.1 of the rule defines inherent process equipment as equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Therefore, the unit is not subject to CAM for SO<sub>x</sub>.

13. S-548-28-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

14. S-548-29-1 – 2220 bhp Cummins Model QSK50-G4 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

15. S-548-30-1 – 2922 bhp Cummins Model QSK60-G6 NR2 Tier 2 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

16. S-548-32-1 – 6.3 MMBtu/hr Hurst Series 100 Digester/Natural Gas-Fired Sludge Heater with a Power Flame L NINVCR5-GG-30A Burner

The unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

17. S-548-33-1 – Three Anaerobic Digesters Served by a Digester Gas H<sub>2</sub>S Removal System and a Flare Industries Model 566 12.4 MMBtu/hr Ground Level Enclosed Flare or Equivalent

The anaerobic digesters produce gas composed of approximately 65% methane and 35% carbon dioxide during anaerobic digestion. The digester gas is passed through an H<sub>2</sub>S removal system prior to use as fuel for the sludge heater in permit S-548-32 with the excess combusted in the ground level flare. The units have emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, and CO. There are no add-on controls for NO<sub>x</sub>, PM<sub>10</sub>, and CO. Therefore, the units are not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, and CO.

The units have an emission limit for SO<sub>x</sub> and have an H<sub>2</sub>S removal system that removes a significant amount of the H<sub>2</sub>S from the biogas so that sulfur dioxide does not form during combustion that will corrode components of the heater and flare. The H<sub>2</sub>S removal system is not a control device as defined by the rule but is an inherent process equipment necessary for the proper or safe functioning of the process. Therefore, the units are not subject to CAM for SO<sub>x</sub>.

The units have an emission limit for VOC and use a flare to meet the permitted emission limit. Therefore, the units may be subject to CAM for VOC. Assuming a destruction efficiency of 98%, the following calculation will determine if the pre-control potential to emit is greater than 20,000 lb-VOC/yr, major source threshold.

$$\begin{aligned}\text{Pre-control PE} &= (0.8 \text{ lb-VOC/day} \times 365 \text{ day/yr}) \div (1-0.98) \\ &= \mathbf{14,600 \text{ lb-VOC/yr} < 20,000 \text{ lb-VOC/yr}}\end{aligned}$$

Since the pre-control PE is less than major source threshold for VOC, the units are not subject to CAM for VOC.

#### 18. S-548-35-1 – 300 kW Fuel Cell Energy DCF300MA Biogas Fuel Cell

The unit has emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but does not have add-on controls for these criteria pollutants. Therefore, the unit is not subject to CAM for these criteria pollutants.

The unit has an emissions limit for SO<sub>x</sub>. Although the unit is served by the H<sub>2</sub>S scrubber in permit unit S-548-24, the H<sub>2</sub>S scrubber's primary purpose is to remove as much of the H<sub>2</sub>S from the biogas fuel prior to use by the fuel cell. This will prevent the corrosion of metal used inside the fuel cell. This type of add-on equipment is classified by the rule as inherent process equipment. Section 64.1 of the rule defines inherent process equipment as equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Therefore, the unit is not subject to CAM for SO<sub>x</sub>.

## IX. PERMIT SHIELD

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

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

#### 1. Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the

applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template are included as conditions 40 and 41 of the facility-wide requirements (S-548-0-2).

**B. Obsolete Permit Shields from Existing Permit Requirements**

1. S-548-10-3 – 171 bhp Cummins Model 6BT5.9G6 Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

Condition 8 on the current permit was modified to remove other county rules not applicable to Tulare County and retained only Tulare County Rule 407. The revised condition is included as condition 7 on the proposed permit.

**X. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

**XI. ATTACHMENTS**

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

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-548-0-2

EXPIRATION DATE: 11/30/2009

## FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
4. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
5. {4365} 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 Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
6. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
7. {4367} 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. {4368} 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. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

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: TULARE CITY WASTEWATER PLANT  
Location: 1875 S WEST ST, TULARE, CA 93274

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10. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
12. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
13. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
14. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
15. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
16. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
17. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
18. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
19. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
20. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
21. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
22. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

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

23. {4383} 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
24. {4384} 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, 5.1] Federally Enforceable Through Title V Permit
25. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
26. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
27. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
28. {4388} 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. {4389} 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. {4390} 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. {4391} 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. {4392} 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. {4393} 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. {4394} 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

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

35. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 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. {4396} 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
37. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
38. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
39. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
40. {4400} 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, 13.2] Federally Enforceable Through Title V Permit
41. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (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, 13.2] Federally Enforceable Through Title V Permit
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are due October 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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-548-3-4

**EXPIRATION DATE:** 11/30/2009

**SECTION:** SW16 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

670 BHP WAUKESHA MODEL L5108GL BIOGAS-FIRED LEAN BURN IC ENGINE WITH H<sub>2</sub>S SCRUBBER POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702 and 40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
3. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702] Federally Enforceable Through Title V Permit
4. This engine shall be operated within the ranges that the source testing has shown result in pollution concentrations within the emissions limits as specified on this permit. [District Rule 4702] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 65 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> (equivalent to 0.933 g-NO<sub>x</sub>/hp-hr), 0.197 g-SO<sub>x</sub>/hp-hr, 0.011 g-PM<sub>10</sub>/hp-hr, 2,000 ppmvd CO @ 15% O<sub>2</sub> (equivalent to 17.468 g-CO/hp-hr), or 750 ppmvd VOC @ 15% O<sub>2</sub> (equivalent to 3.743 g-VOC/hp-hr). [District Rule 2201, District Rules 4701, and 4702] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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 Rules 4701 and 4702] Federally Enforceable Through Title V Permit
7. The acceptable exhaust gas O<sub>2</sub> range shall be established from manufacturer's information, or by source testing this unit. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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8. If either the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, 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 Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 15% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Source testing to measure biogas-combustion NO<sub>x</sub>, CO, and VOC emissions from this unit shall be measured not less than once every 24 months. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
15. 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
16. 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
17. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 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.

18. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
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 Rules 4701, 4702, and 40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. 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
21. 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
22. On and after October 19, 2013, the engine's oil and filter shall be changed every 1,440 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. On and after October 19, 2013, the engine's spark plugs shall be inspected every 1,440 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
24. On and after October 19, 2013, the engine's hoses and belts shall be inspected every 1,440 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
25. On and after October 19, 2013, the permittee shall maintain monthly records that include any information necessary to demonstrate compliance with 40 CFR 63, ZZZZ. [District Rule 1070 and 40 CFR 63, ZZZZ] Federally Enforceable Through Title V Permit
26. 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, ZZZZ] Federally Enforceable Through Title V Permit
27. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of the operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of the action(s) taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning operation and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63, ZZZZ] Federally Enforceable Through Title V Permit
28. The permittee shall maintain daily records of the fuel usage monitors. [District Rule 1070 and 40 CFR 63, 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-548-5-2

**EQUIPMENT DESCRIPTION:**  
VARAC MODEL 244-W BIOGAS FLARE

**EXPIRATION DATE:** 11/30/2009

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## PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SOx (as SO2)/day, 90.7 lb NOx (as NO2)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081] Federally Enforceable Through Title V Permit
6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
8. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201, District Rule 4311, and 40 CFR 64] Federally Enforceable Through Title V Permit
10. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40 CFR 60.18(f)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
11. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 40 CFR 60.18(c)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
12. 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. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit

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

13. 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, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
14. 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
15. 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 and 40 CFR 64] Federally Enforceable Through Title V Permit
16. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40 CFR 60.18(d) and 40 CFR 64] Federally Enforceable Through Title V Permit
17. A non-assisted flare 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). [40 CFR 60.18 (c)(3)(i)(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
18. 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. [40 CFR 60.18 (f)(4) and 40 CFR 64] Federally Enforceable Through Title V Permit
19. 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 60.18 (c)(3)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
20. Steam-assisted and non-assisted 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). [40 CFR 60.18 (c)(4)(i) and 40 CFR 64] Federally Enforceable Through Title V Permit
21. Steam-assisted and non-assisted 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. [40 CFR 60.18 (c)(4)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
22. Steam-assisted and non-assisted 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. [40 CFR 60.18 (c)(4)(iii) and 40 CFR 64] Federally Enforceable Through Title V Permit
23. Air-assisted flares shall be operated with an exit velocity less than the velocity  $V_{max}$  as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5) and 40 CFR 64] Federally Enforceable Through Title V Permit
24. The net heating value of the gas being combusted 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. [40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
25. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2 and District Rule 4311] Federally Enforceable Through Title V Permit
26. The permittee shall visually inspect the flare's emergency bypass valve to ensure the valve is maintained in the closed position. [40 CFR 64] 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-548-7-4

**EXPIRATION DATE:** 11/30/2009

**SECTION:** SW16 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

900 BHP CATERPILLAR MODEL D348 V-12 S/N 36J1780 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] 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. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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
8. 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
9. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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-548-9-3

**EXPIRATION DATE:** 11/30/2009

**SECTION:** SW16 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

116 HP CUMMINS 4BTA3.9-C DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER WELL PUMP

## PERMIT UNIT REQUIREMENTS

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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. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Emissions shall not exceed 6.3 g NOx/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] 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] 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 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, 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, 5.7.3] Federally Enforceable Through Title V Permit
10. 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, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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] Federally Enforceable Through Title V Permit

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

11. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. 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
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 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
17. 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
18. 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
19. 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
20. 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-548-10-3

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

171 BHP CUMMINS MODEL 6BT5.9G6 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Engine shall be equipped with a turbocharger. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This engine is approved to operate wastewater liftstation pump motors located throughout various locations within the City of Tulare. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070] 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. Emissions from the engine shall not exceed either of the following limits: 6.90 g NO<sub>x</sub>/hp-hr, or 0.4 g PM<sub>10</sub>/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. 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] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
16. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
17. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 30 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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-548-11-3

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

1502 HP CATERPILLAR MODEL 3508B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, 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. NOx emissions shall not exceed 6.7 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM10 emissions rate shall not exceed 0.05 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, 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. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
11. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] 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. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-14-3

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

80 BHP JOHN DEERE MODEL 4045DF150 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, 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. Visible emissions from this engine shall not exceed Ringelmann 2, provided that operation of the engine for testing and maintenance purposes does not exceed 30 minutes per week, or 2 hours per month. [CH&SC 41701.6]
5. Emissions from this engine shall not exceed either of the following limits: 5.05 g-NOx/hp-hr or 2.75 g-CO/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The PM10 emissions rate shall not exceed 0.15 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] 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 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
18. 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
19. 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
20. 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
21. 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
22. 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-548-16-2

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

119 BHP PERKINS 3054TA DIESEL-FIRED EMERGENCY IC ENGINE WITH TURBOCHARGER AND AFTERCOOLER  
POWERING A WASTEWATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
4. Emissions from this engine shall not exceed any of the following limits: 6.9 g-NO<sub>x</sub>/hp-hr, 1.21 g-CO/hp-hr, or 0.30 g-VOC/hp-hr. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
5. The PM<sub>10</sub> emissions rate shall not exceed 0.40 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Part ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] 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. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Part ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 30 hours per calendar year. [District Rule 4702, 40 CFR 63 Part ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. 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
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 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
17. 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
18. 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
19. 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
20. 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-548-20-3

EXPIRATION DATE: 11/30/2009

EQUIPMENT DESCRIPTION:  
TEN WASTEWATER TREATMENT RETENTION/PERCOLATION PONDS

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## PERMIT UNIT REQUIREMENTS

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1. See Facility-wide requirements for conditions 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-548-24-1

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL WITH APPLIED FILTER TECHNOLOGY H2S REMOVAL SYSTEM SERVING S-548-24, 25, 26, AND 35

## PERMIT UNIT REQUIREMENTS

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1. Emissions from the fuel cell shall not exceed any of the following limits: 0.02 lb-NO<sub>x</sub>/MW hr, 0.001 lb-SO<sub>x</sub>/MW hr, 0.01 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-548-25-1

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

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**PERMIT UNIT REQUIREMENTS**

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1. Emissions from the fuel cell shall not exceed any of the following limits: 0.02 lb-NO<sub>x</sub>/MW hr, 0.001 lb-SO<sub>x</sub>/MW hr, 0.01 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201] 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-548-26-1

EXPIRATION DATE: 11/30/2009

EQUIPMENT DESCRIPTION:

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

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## PERMIT UNIT REQUIREMENTS

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1. Emissions from the fuel cell shall not exceed any of the following limits: 0.02 lb-NO<sub>x</sub>/MW hr, 0.001 lb-SO<sub>x</sub>/MW hr, 0.01 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201] 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-548-28-1

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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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, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] 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, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NO<sub>x</sub>/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.11 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
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 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. 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.

11. 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
12. 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] Federally Enforceable Through Title V Permit
13. 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-548-29-1

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 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, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] 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, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NO<sub>x</sub>/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.11 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
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 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. 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.

11. 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
12. 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] Federally Enforceable Through Title V Permit
13. 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-548-30-1

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

2922 BHP CUMMINS MODEL QSK60-G6 NR2 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, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] 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, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 3.88 g-NOx/bhp-hr, 0.35 g-CO/bhp-hr, or 0.29 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.09 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
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 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. 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.

11. 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
12. 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] Federally Enforceable Through Title V Permit
13. 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-548-32-1

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

6.3 MMBTU/HR HURST SERIES 100 DIGESTER/NATURAL GAS-FIRED SLUDGE HEATER WITH A POWER FLAME L NINVCR5-GG-30A BURNER

## 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. Emissions from the unit when fired on digester gas shall not exceed any of the following limits: 15 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.018 lb-NO<sub>x</sub>/MMBtu, 0.041 lb-SO<sub>x</sub>/MMBtu, 0.0005 lb-PM<sub>10</sub>/MMBtu, 41 ppmvd CO @ 3% O<sub>2</sub> or 0.030 lb-CO/MMBtu, or 0.005 lb-VOC/MMBtu. [District Rules 2201 and 4306] Federally Enforceable Through Title V Permit
3. Fuel used shall not exceed 151 MMBtu/day or 49,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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 unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
5. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
6. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
7. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] 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.

8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
10. This unit shall be tested for compliance with the NO<sub>x</sub> and CO emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
11. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NO<sub>x</sub> emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
12. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
13. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305 and 4306] 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 Rule 1070, 4305 and 4306] Federally Enforceable Through Title V Permit
15. On and after July 1, 2012, the permit unit shall be in full compliance with District Rule 4320 (adopted 10/16/08). [District Rule 4320] 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-548-33-1

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H<sub>2</sub>S REMOVAL SYSTEM AND A FLARE  
INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

## PERMIT UNIT REQUIREMENTS

1. Digester gas shall be burned in flare or heater S-548-32 [District Rule 2201] Federally Enforceable Through Title V Permit
2. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District Rule 2201] 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. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM<sub>10</sub>/day, 12.2 lb SO<sub>x</sub> (as SO<sub>2</sub>)/day, 17.9 lb NO<sub>x</sub> (as NO<sub>2</sub>)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District Rule 2201 and 4311] Federally Enforceable Through Title V Permit
5. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with SO<sub>x</sub> emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SO<sub>x</sub> emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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
9. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
10. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201 and District Rule 4311] Federally Enforceable Through Title V Permit
11. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
12. 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. [District Rule 4311] 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. 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] Federally Enforceable Through Title V Permit
14. 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
15. The flare shall be tested for compliance with the VOC and NO<sub>x</sub> emissions limits at least once every 12 months. [District Rule 4311] Federally Enforceable Through Title V Permit
16. VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. NO<sub>x</sub> emissions in pounds per million BTU shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
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] 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-548-35-1

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

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## PERMIT UNIT REQUIREMENTS

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1. Emissions from the fuel cell shall not exceed any of the following limits: 0.01 lb-NO<sub>x</sub>/MW hr, 0.0001 lb-SO<sub>x</sub>/MW hr, 0.00002 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Previous Title V Operating Permit

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**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**COPY**

# Permit to Operate

**FACILITY:** S-548

**EXPIRATION DATE:** 11/30/2009

**LEGAL OWNER OR OPERATOR:**

TULARE CITY WASTEWATER PLANT

**MAILING ADDRESS:**

1875 S WEST ST  
TULARE, CA 93274

**FACILITY LOCATION:**

1875 S WEST ST  
TULARE, CA 93274

**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-548-0-1

EXPIRATION DATE: 11/30/2009

## FACILITY-WIDE REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; 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, 7.0; 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, 5.0] Federally Enforceable Through Title V Permit
5. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
6. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
7. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
8. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
9. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: TULARE CITY WASTEWATER PLANT  
Location: 1875 S WEST ST, TULARE, CA 93274  
S-548-0-1 Feb 29 2012 10:53AM -- SIONGCOJ

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
25. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
26. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
27. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
28. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
29. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
30. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
36. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

37. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
38. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
39. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. On September 30, 2005, 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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-3-2

EXPIRATION DATE: 11/30/2009

SECTION: SW16 TOWNSHIP: 20S RANGE: 24E

## EQUIPMENT DESCRIPTION:

670 HP WAUKESHA MODEL L5108GL BIOGAS-FIRED LEAN BURN IC ENGINE WITH H<sub>2</sub>S SCUBBER, POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
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, 5.0] Federally Enforceable Through Title V Permit
3. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702, 6.5.5] Federally Enforceable Through Title V Permit
5. This engine shall be operated within the ranges that the source testing has shown result in pollution concentrations within the emissions limits as specified on this permit. [District Rule 4702, 6.5.1] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 65 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> (equivalent to 0.933 g-NO<sub>x</sub>/hp-hr), 0.197 g-SO<sub>x</sub>/hp-hr, 0.011 g-PM<sub>10</sub>/hp-hr, 2,000 ppmvd CO @ 15% O<sub>2</sub> (equivalent to 17.468 g-CO/hp-hr), or 750 ppmvd VOC @ 15% O<sub>2</sub> (equivalent to 3.743 g-VOC/hp-hr). [District NSR Rule, District Rules 4701, 5.1 and 4702, 5.1] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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 Rules 4701, 5.4.3 and 4702, 6.5.2] Federally Enforceable Through Title V Permit
8. The acceptable exhaust gas O<sub>2</sub> range shall be established from manufacturer's information, or by source testing this unit. [District Rules 4701, 6.3 and 4702, 5.6.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. If either the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, 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 Rules 4701, 6.3 and 4702, 6.5.4] Federally Enforceable Through Title V Permit
10. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701, 5.4.3 and 4702, 5.6.9] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 15% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701, 6.2 and 4702, 6.5.7] Federally Enforceable Through Title V Permit
12. Source testing to measure biogas-combustion NO<sub>x</sub>, CO, and VOC emissions from this unit shall be measured not less than once every 24 months. [District Rules 4701, 6.3.1 and 4702, 6.3] Federally Enforceable Through Title V Permit
13. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701, 6.3.2 and 4702, 6.3] Federally Enforceable Through Title V Permit
14. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rules 4701, 6.3.2 and 4702, 6.3] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rules 1081, 5.0; 4701, 6.4 and 4702, 6.4] Federally Enforceable Through Title V Permit
16. 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, 7.1] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
18. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701, 6.2.1 and 4702, 6.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

19. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702, 6.5.8] Federally Enforceable Through Title V Permit
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 Rules 4701, 6.2.3 and 4702, 6.2.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-5-1

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

VARAC MODEL 244-W BIOGAS FLARE

## PERMIT UNIT REQUIREMENTS

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1. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.0 and 40CFR 60.18(c)(1)] Federally Enforceable Through Title V Permit
4. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SO<sub>x</sub> (as SO<sub>2</sub>)/day, 90.7 lb NO<sub>x</sub> (as NO<sub>2</sub>)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Compliance with SO<sub>x</sub> emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SO<sub>x</sub> emissions at least once every two years. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
7. 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, 7.1] Federally Enforceable Through Title V Permit
8. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
9. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rule 1081, 5.0] Federally Enforceable Through Title V Permit
10. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District NSR Rule and District Rule 4311, 6.2] Federally Enforceable Through Title V Permit
11. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40CFR 60.18(f)(1)] Federally Enforceable Through Title V Permit
12. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2 and 40CFR 60.18(c)(2)] Federally Enforceable Through Title V Permit
13. 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. [District Rule 4311, 5.3 and 40CFR 60.18(f)(2)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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)] Federally Enforceable Through Title V Permit
15. 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, 5.5] Federally Enforceable Through Title V Permit
16. 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] Federally Enforceable Through Title V Permit
17. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40CFR 60.18(d)] Federally Enforceable Through Title V Permit
18. A non-assisted flare 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). [40 CFR 60.18 (c)(3)(i)(a)] Federally Enforceable Through Title V Permit
19. 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. [40 CFR 60.18 (f)(4)] Federally Enforceable Through Title V Permit
20. 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 60.18 (c)(3)(ii)] Federally Enforceable Through Title V Permit
21. Steam-assisted and non-assisted 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). [40 CFR 60.18 (c)(4)(i)] Federally Enforceable Through Title V Permit
22. Steam-assisted and non-assisted 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. [40 CFR 60.18 (c)(4)(ii)] Federally Enforceable Through Title V Permit
23. Steam-assisted and non-assisted 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. [40 CFR 60.18 (c)(4)(iii)] Federally Enforceable Through Title V Permit
24. Air-assisted flares shall be operated with an exit velocity less than the velocity  $V_{max}$  as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5)] Federally Enforceable Through Title V Permit
25. The net heating value of the gas being combusted 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. [40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
26. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2 and District Rule 4311, 6.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-7-3

EXPIRATION DATE: 11/30/2009

SECTION: SW16 TOWNSHIP: 20S RANGE: 24E

## EQUIPMENT DESCRIPTION:

900 HP CATERPILLAR MODEL D348, V-12 DIESEL-FIRED EMERGENCY IC ENGINE (S/N 36J1780) POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
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, 5.1] Federally Enforceable Through Title V Permit
3. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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, 5.7.2] 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 Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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, 5.7.3] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-9-2

EXPIRATION DATE: 11/30/2009

SECTION: SW16 TOWNSHIP: 20S RANGE: 24E

## EQUIPMENT DESCRIPTION:

116 HP CUMMINS 4BTA3.9-C DIESEL-FIRED EMERGENCY IC ENGINE WITH TURBOCHARGER AND INTERCOOLER/AFTERCOOLER POWERING A WATER WELL PUMP

## PERMIT UNIT REQUIREMENTS

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1. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.1] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed 6.3 g NOx/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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, 5.7.2] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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, 5.7.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-10-2

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

171 BHP CUMMINS MODEL 6BT5.9G6 EMERGENCY DIESEL-FIRED IC ENGINE WITH TURBOCHARGER POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Engine shall be equipped with a turbocharger. [District NSR Rule] Federally Enforceable Through Title V Permit
3. This engine is approved to operate wastewater liftstation pump motors located throughout various locations within the City of Tulare. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.1] Federally Enforceable Through Title V Permit
7. Emissions from the engine shall not exceed either of the following limits: 6.90 g NOx/hp-hr, or 0.4 g PM10/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. 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, 5.7.2] Federally Enforceable Through Title V Permit
11. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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, 5.7.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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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 Rules 4702, 5.7 and 2520, 9.4.2 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 2520, 9.4.2 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 Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 30 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-11-2

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

1502 HP CATERPILLAR MODEL 3508B DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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, roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
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, 5.1] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 6.7 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emissions rate shall not exceed 0.05 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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, 5.7.2] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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, 5.7.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-14-2

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

80 BHP JOHN DEERE MODEL 4045DF150 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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, roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
4. Visible emissions from this engine shall not exceed Ringelmann 2, provided that operation of the engine for testing and maintenance purposes does not exceed 30 minutes per week, or 2 hours per month. [CH&SC 41701.6]
5. Emissions from this engine shall not exceed either of the following limits: 5.05 g-NOx/hp-hr or 2.75 g-CO/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emissions rate shall not exceed 0.15 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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, 5.7.2] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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, 5.7.3] Federally Enforceable Through Title V Permit

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-16-1

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

119 BHP EMERGENCY DIESEL-FIRED IC ENGINE PERKINS 3054TA WITH TURBOCHARGER AND AFTERCOOLER DRIVING A WASTEWATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. This 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
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
6. Emissions from this engine shall not exceed any of the following limits: 6.9 g-NO<sub>x</sub>/hp-hr, 1.21 g-CO/hp-hr, or 0.30 g-VOC/hp-hr. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
7. The PM<sub>10</sub> emissions rate shall not exceed 0.40 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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, 5.7.2] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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, 5.7.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 30 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-548-20-1

EXPIRATION DATE: 11/30/2009

**EQUIPMENT DESCRIPTION:**

TEN WASTEWATER TREATMENT RETENTION/PERCOLATION PONDS

**PERMIT UNIT REQUIREMENTS**

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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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-548-24-0

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL WITH APPLIED FILTER TECHNOLOGY H2S REMOVAL SYSTEM SERVING S-548-24, 25, 26

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Emissions from the fuel cell shall not exceed any of the following limits: 0.02 lb-NO<sub>x</sub>/MW hr, 0.001 lb-SO<sub>x</sub>/MW hr, 0.01 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-548-25-0

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Emissions from the fuel cell shall not exceed any of the following limits: 0.02 lb-NO<sub>x</sub>/MW hr, 0.001 lb-SO<sub>x</sub>/MW hr, 0.01 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-548-26-0

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Emissions from the fuel cell shall not exceed any of the following limits: 0.02 lb-NO<sub>x</sub>/MW hr, 0.001 lb-SO<sub>x</sub>/MW hr, 0.01 lb-PM<sub>10</sub>/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201]

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-28-0

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. 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]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NOx/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.11 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] 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. 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
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] 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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-29-0

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. 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]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NOx/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.11 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] 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. 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
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] 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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-30-0

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. 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]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 3.88 g-NOx/bhp-hr, 0.35 g-CO/bhp-hr, or 0.29 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.09 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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] 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. 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
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] 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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-32-0

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

6.3 MMBTU/HR HURST SERIES 100 DIGESTER/NATURAL GAS-FIRED SLUDGE HEATER WITH A POWER FLAME L NINVC5-GG-30A BURNER

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. Emissions from the unit when fired on digester gas shall not exceed any of the following limits: 15 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.018 lb-NO<sub>x</sub>/MMBtu, 0.041 lb-SO<sub>x</sub>/MMBtu, 0.0005 lb-PM<sub>10</sub>/MMBtu, 41 ppmvd CO @ 3% O<sub>2</sub> or 0.030 lb-CO/MMBtu, or 0.005 lb-VOC/MMBtu. [District Rules 2201 and 4306] Federally Enforceable Through Title V Permit
5. Fuel used shall not exceed 151 MMBtu/day or 49,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> 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 unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
7. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
8. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] 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.

9. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. This unit shall be tested for compliance with the NO<sub>x</sub> and CO emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rule 4305] Federally Enforceable Through Title V Permit
13. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NO<sub>x</sub> emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305] Federally Enforceable Through Title V Permit
14. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305] Federally Enforceable Through Title V Permit
15. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305] Federally Enforceable Through Title V Permit
16. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-33-0

EXPIRATION DATE: 11/30/2009

## EQUIPMENT DESCRIPTION:

THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H<sub>2</sub>S REMOVAL SYSTEM AND A FLARE  
INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

## PERMIT UNIT REQUIREMENTS

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1. Digester gas shall be burned in flare or heater S-548-32 [District Rule 2201] Federally Enforceable Through Title V Permit
2. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
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, 5.0 and 40CFR 60.18(c)(1)] Federally Enforceable Through Title V Permit
5. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM<sub>10</sub>/day, 12.2 lb SO<sub>x</sub> (as SO<sub>2</sub>)/day, 17.9 lb NO<sub>x</sub> (as NO<sub>2</sub>)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with SO<sub>x</sub> emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SO<sub>x</sub> emissions at least once every two years. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
10. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rule 1081, 5.0] Federally Enforceable Through Title V Permit
11. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District NSR Rule and District Rule 4311, 6.2] Federally Enforceable Through Title V Permit
12. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. 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. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. 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, 5.5] Federally Enforceable Through Title V Permit
16. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2 and District Rule 4311, 6.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-548-35-0

**EXPIRATION DATE:** 11/30/2009

**EQUIPMENT DESCRIPTION:**

300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Emissions from the fuel cell shall not exceed any of the following limits: 0.01 lb-NO<sub>x</sub>/MW hr, 0.0001 lb-SO<sub>x</sub>/MW hr, 0.00002 lb-PM10/MW hr, 0.05 lb-CO/MW hr, or 0.02 lb-VOC/MW hr. [District Rule 2201]

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

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# ATTACHMENT C

## Detailed Facility List

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**Detailed Facility Report**  
For Facility=548 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>TULARE CITY WASTEWATER PLANT</b> 1875 S WEST ST TULARE, CA 93274	FAC # STATUS: TELEPHONE:	<b>S 548</b> <b>A</b> <b>5596882001</b>	TYPE: TOXIC ID:	<b>TitleV</b> <b>50054</b>	EXPIRE ON: AREA: INSP. DATE:	11/30/2009 22 / 05/12
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-548-3-2	670 hp	3020-10 D	1	479.00	479.00	A	670 HP WAUKESHA MODEL L5108GL BIOGAS-FIRED LEAN BURN IC ENGINE WITH H2S SCUBBER, POWERING AN ELECTRIC GENERATOR
S-548-5-1	61.25 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	VARAC MODEL 244-W BIOGAS FLARE
S-548-7-3	900 HORSEPOWER	3020-10 E	1	602.00	602.00	A	900 HP CATERPILLAR MODEL D348, V-12 DIESEL-FIRED EMERGENCY IC ENGINE (S/N 36J1780) POWERING AN ELECTRIC GENERATOR
S-548-9-2	116 BHP	3020-10 B	1	117.00	117.00	A	116 HP CUMMINS 4BTA3.9-C DIESEL-FIRED EMERGENCY IC ENGINE WITH TURBOCHARGER AND INTERCOOLER/AFTERCOOLER POWERING A WATER WELL PUMP
S-548-10-2	171 BHP	3020-10 B	1	117.00	117.00	A	171 BHP CUMMINS MODEL 6BT5.9G6 EMERGENCY DIESEL-FIRED IC ENGINE WITH TURBOCHARGER POWERING AN ELECTRIC GENERATOR
S-548-11-2	1502 hp	3020-10 F	1	749.00	749.00	A	1502 HP CATERPILLAR MODEL 3508B DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRIC GENERATOR
S-548-14-2	80 HP IC ENGINE	3020-10 A	1	80.00	80.00	A	80 BHP JOHN DEERE MODEL 4045DF150 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP
S-548-16-1	119 BHP IC ENGINE	3020-10 B	1	117.00	117.00	A	119 BHP EMERGENCY DIESEL-FIRED IC ENGINE PERKINS 3054TA WITH TURBOCHARGER AND AFTERCOOLER DRIVING A WASTEWATER PUMP
S-548-20-1	Ten Percolation/Retention Ponds	3020-06	1	105.00	105.00	A	TEN WASTEWATER TREATMENT RETENTION/PERCOLATION PONDS
S-548-24-0	0.3 MW	3020-08A A	1	259.00	259.00	A	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL WITH APPLIED FILTER TECHNOLOGY H2S REMOVAL SYSTEM SERVING S-548-24, 25, 26
S-548-25-0	0.3 MW	3020-08A A	1	259.00	259.00	A	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL
S-548-26-0	0.3 MW	3020-08A A	1	259.00	259.00	A	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL
S-548-28-0	2,220 bhp	3020-10 F	1	749.00	749.00	A	2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-548-29-0	2,944 bhp	3020-10 F	1	749.00	749.00	A	2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-548-30-0	2,922 bhp	3020-10 F	1	749.00	749.00	A	2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

**Detailed Facility Report**  
For Facility=548 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-548-32-0	6.3 MMBtu/hr	3020-02 G	1	815.00	815.00	A	6.3 MMBTU/HR HURST SERIES 100 DIGESTER/NATURAL GAS-FIRED SLUDGE HEATER WITH A POWER FLAME L NINVCR5-GG-30A BURNER
S-548-33-0	12.4 MMBtu/hr	3020-02 G	1	815.00	815.00	A	THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H2S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT
S-548-35-0	0.3 MW fuel cell	3020-08A A	1	259.00	259.00	A	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL

Number of Facilities Reported: 1