



APR 19 2010

Mark Madison  
Stockton RWCF  
2500 Navy Dr  
Stockton, CA 95206-1121

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # N-811  
Project # N-1082072**

Dear Mr. Madison:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Stockton RWCF for its Wastewater Treatment Facility at 2500 Navy Dr, Stockton, 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

---

**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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34946 Flyover Court  
Bakersfield, CA 93308-9725  
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**APR 19 2010**

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 # N-811  
Project # N-1082072**

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 Stockton RWCF for its Wastewater Treatment Facility at 2500 Navy Dr, Stockton, 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

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APR 19 2010

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 # N-811  
Project # N-1082072**

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 Stockton RWCF for its Wastewater Treatment Facility at 2500 Navy Dr, Stockton, 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 Stockton RWCF for its wastewater treatment facility, 2500 Navy Dr, Stockton, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1082072, 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 Stockton RWCF N-811

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

**Engineer:** Juscelino Siongco  
**Date:** April 2, 2010

**Facility Number:** N-811  
**Facility Name:** Stockton RWCF  
**Mailing Address:** 2500 Navy Dr  
Stockton, CA 95206-1191

**Contact Name:** Laura Lazzelle  
**Phone:** (209) 937-8852

**Responsible Official:** Mark Madison  
**Title:** Director of Municipal Utilities

**Project # :** N-1082072  
**Deemed Complete:** June 23, 2008

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**I. PROPOSAL**

Stockton RWCF was issued a Title V permit on September 23, 1999. 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**

Stockton RWCF is located at 2500 Navy Dr, Stockton, CA.

### 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:

The applicant does not propose to use any model general permit templates.

### 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 applicant is not requesting any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

### VI. FEDERALLY ENFORCEABLE REQUIREMENTS

#### A. Rules Updated

- District Rule 2201, New and Modified Stationary Source Review Rule (amended December 19, 2002 ⇒ September 21, 2006)
- District Rule 4101, Visible Emissions (amended November 15, 2001 ⇒ amended February 17, 2005)
- District Rule 4601, Architectural Coatings (amended October 31, 2001 ⇒ amended December 17, 2009)

- District Rule 4621, Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, and Bulk Plants  
(amended June 18, 1998 ⇒ amended December 20, 2007)
- District Rule 4622, Transfer of Gasoline Into Vehicle Fuel Tanks  
(amended September 19, 2002 ⇒ amended December 20, 2007)
- District Rule 4702, Internal Combustion Engines  
(amended August 21, 2003 ⇒ amended January 18, 2007)
- District Rule 8011, General Requirements  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8031, Bulk Materials  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8041, Carryout and Trackout  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8051, Open Areas  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas  
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos  
(amended September 18, 2003)
- 40 CFR Part 82, Subpart B, Stratospheric Ozone  
(amended November 9, 2007)
- 40 CFR Part 82, Subpart F, Stratospheric Ozone  
(amended June 8, 2008)

- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended January 18, 2008)

**B. 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 2020, Exemptions (amended December 19, 2002)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001 )
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4311, Flares (adopted June 20, 2002)
- District Rule 4701, Internal Combustion Engines (amended August 21, 2003)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

## 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

- a. N-811-0-3, Facility-Wide Requirements
  - Condition 42 of the permit is based on this rule.
- b. N-811-25-2, 2550 bhp Detroit Diesel Emergency Standby IC Engine
  - Condition 3 of the permit is based on this rule.

## 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 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.

## **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:

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  - Condition 42 of the permit is based on this rule.
- b. N-811-25-2, 2550 bhp Detroit Diesel Emergency Standby IC Engine
  - Condition 3 of the permit is based on this rule.

## **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 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.

#### **B. District Rule 2520 - Federally Mandated Operating Permits**

Section 9.3.2 requires that periodic monitoring be performed if none is associated with a given emission limit to assure compliance.

##### **a. N-811-26-2, Headworks Facility**

The permit unit has emissions limits for VOC and Ammonia (NH<sub>3</sub>) but no periodic monitoring. Therefore, periodic monitoring for VOC will consist of quarterly monitoring with a portable analyzer. Ammonia will require annual source testing using BAAQMD ST-1B test method.

- Conditions 7, 8, and 9 of the permit ensure compliance with this rule.

#### **C. District Rule 4101 - Visible Emissions**

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101.

##### **a. N-811-0-3, Facility-Wide Requirements**

- Condition 22 of the permit ensures compliance with this rule.

#### **D. District Rule 4601 - Architectural Coatings**

This rule limits the emissions of VOC's from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). This rule further specifies labeling requirements, coatings thinning recommendations, and storage

requirements. The following changes were included in the latest rule amendment that resulted in adding new permit requirements and/or revising current permit requirements:

- The tables outlining the VOC content of different specialty coatings has been largely replaced with the Table of Standards in Section 5.0.
  - New labeling, reporting, test methodology and other requirements have been incorporated into the rule in order to allow California Air Resources Board (CARB) to administer the Averaging Program as detailed in Section 8.0.
- a. N-811-0-3 – Facility-Wide Requirements
- Conditions 23, 24, and 25 on the proposed permit assure compliance with this rule.

**E. District Rule 4621 - Gasoline Transfer into Stationary Storage Containers, Delivery Vessels and Bulk Plants**

This rule limits VOC emissions from stationary storage containers, delivery vessels, and bulk plants and to provide the administrative requirements for determining compliance. The rule was amended in December 20, 2007.

- a. N-811-13-3, 2,000 Gallon Aboveground Convault Gasoline Storage Tank with Phase I and Phase II Vapor Recovery
- Conditions 1, 2, and 8 through 16 of the permit ensure compliance with this rule.

**F. District Rule 4622 - Gasoline Transfer into Motor Vehicle Fuel Tanks**

This rule limits emissions of gasoline vapors from the transfer of gasoline into motor vehicle fuel tanks. The rule was amended in December 20, 2007.

- a. N-811-13-3, 2,000 Gallon Aboveground Convault Gasoline Storage Tank with Phase I and Phase II Vapor Recovery
- Conditions 4, 6, 14, and 16 through 34 of the permit ensure compliance with this rule.

## **G. District Rule 4702–Internal Combustion Engines–Phase 2**

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. The rule was amended in January 18, 2007 to address the following. The definition of Certified Compression-Ignited Engine was modified to include a Code of Federal Regulation citation. Exemption was added for engines used in retracting arresting gear cables used to stop military naval aircraft after landing. A compliance deadline for engines used exclusively in agricultural operation was extended for one year. Engines operated with an APCO certified exhaust control system were exempted from submitting an emission control plan. Certified compression ignition engines were exempted from compliance testing. A portable NO<sub>x</sub> analyzer was allowed for Agriculture Operation (AO) spark-ignited engines to initially show compliance with the emission standards until a source test can be arranged. Representative testing for spark-ignited engines were allowed. A District certification program was established to verify the control efficiency of exhaust control systems.

The following permit requirements ensure compliance with this rule:

- a. N-811-11-4 and -12-4, 450 bhp Caterpillar Portable Emergency Standby Diesel-Fired IC Engine
  - Conditions 4 through 10 on the proposed permit ensure compliance with this rule.
- b. N-811-19-6, 193 bhp John Deere Diesel-Fired IC Engine
  - Conditions 2, 3, 6, and 7 on the proposed permit ensure compliance with this rule.
- c. N-811-21-4, -22-4, and -23-4, 1408 bhp Waukesha Digester Gas/Natural Gas-Fired Lean Burn Precombustion Type IC Engine with Siloxane Scrubber
  - Conditions 1, 8, and 18 through 22 on the proposed permit ensure compliance with this rule.
- d. N-811-25-2, 2550 hp Detroit Diesel Diesel-Fired Emergency Standby IC Engine
  - Conditions 7 through 14 on the proposed permit ensure compliance with this rule.

## **H. District Rule 8011 - General Requirements**

The purpose of Regulation VIII (Fugitive PM10 Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM10) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM10 Nonattainment Areas. The rules are applicable to specified anthropogenic fugitive dust sources. Fugitive dust contains PM10 and particles larger than PM10. Controlling fugitive dust emissions when visible emissions are detected will not prevent all PM10 emissions, but will substantially reduce PM10 emissions.

The provisions of this rule are applicable to specified outdoor fugitive dust sources. The definitions, exemptions, requirements, administrative requirements, recordkeeping requirements, and test methods set forth in this rule are applicable to all Rules under Regulation VIII (Fugitive PM10 Prohibitions) of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District.

### **a. N-811-0-3, Facility-Wide Requirements**

- Conditions 29 through 34 of the permit ensure compliance with this rule.

## **I. District Rule 8021 - Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities**

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.

This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfilling activities.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

a. N-811-0-3, Facility-Wide Requirements

- Condition 29 of the permit ensures compliance with this rule.

**J. District Rule 8031 - Bulk Materials**

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.

This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit VDE to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

a. N-811-0-3, Facility-Wide Requirements

- Condition 30 of the permit ensures compliance with this rule.

**K. District Rule 8041 - Carryout and Trackout**

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout.

This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that an owner/operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

a. N-811-0-3, Facility-Wide Requirements

- Condition 31 of the permit ensures compliance with this rule.

**L. District Rule 8051 - Open Areas**

The purpose of this rule is to limit fugitive dust emissions from open areas.

This rule applies to any open area having 3.0 acres or more of disturbed surface area, that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner/operator shall implement one or a combination of control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

a. N-811-0-3, Facility-Wide Requirements

- Condition 32 of the permit ensures compliance with this rule.

**M. District Rule 8061 - Paved and Unpaved Roads**

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.

This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

a. N-811-0-3, Facility-Wide Requirements

- Condition 33 of the permit ensures compliance with this rule.

**N. District Rule 8071 - Unpaved Vehicle/Equipment Traffic Area**

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas by implementing control measures and design criteria.

This rule applies to any unpaved vehicle/equipment traffic area of 1.0 acre or larger.

a. N-811-0-3, Facility-Wide Requirements

- Condition 34 of the permit ensures compliance with this rule.
- **40 CFR Part 60, Subpart III, 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, or manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006. It is also applicable to owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.

a. N-811-11-4 and -12-4, 450 bhp Caterpillar Portable Emergency Standby Diesel-Fired IC Engine

The engines at this facility are existing stationary compression ignition internal combustion engines that do not meet the above applicability requirements. Therefore, this subpart is not applicable and no further discussion is required.

b. N-811-19-6, 193 bhp John Deere Diesel-Fired IC Engine

The engine at this facility is an existing stationary compression ignition internal combustion engine that do not meet the above applicability requirements. Therefore, this subpart is not applicable and no further discussion is required.

c. N-811-25-2, 2550 bhp Detroit Diesel Diesel-Fired Emergency Standby IC Engine

The engine at this facility is an existing stationary compression ignition internal combustion engine that do not meet the above applicability requirements. Therefore, this subpart is not applicable and no further discussion is required.

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

The provisions of this subpart are applicable to owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) that

commence construction after June 12, 2006, where the stationary SI ICE are manufactured on or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 hp (except lean burn engines with a maximum engine power greater than or equal to 500 hp and less than 1,350 hp); on or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 hp and less than 1,350 hp; on or after July 1, 2008, for engines with a maximum engine power less than 500 hp; or on or after January 1, 2009, for emergency engines with a maximum engine power greater than 25 hp. It is also applicable to owners and operators of stationary SI ICE that commences modification or reconstruction after June 12, 2006.

- a. N-811-21-4, -22-4, and -23-4, 1408 bhp Waukesha Digester Gas/Natural Gas-Fired Lean Burn Precombustion Type IC Engine with Siloxane Scrubber

The engines at this facility are existing stationary spark ignition internal combustion engines that do not meet the above applicability requirements. Therefore, this subpart is not applicable and no further discussion is required.

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

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

§6585(b) states, "A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site."

§6585(c) states, "An area source of HAP emissions is a source that is not a major source."

The facility is not a major source of HAP as defined in §6585(b). Therefore, this facility is an area source of HAP emissions.

§6590(a) states, "An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand."

§6590(a)(1) defines the criteria for an existing stationary RICE as follows:

(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

This facility is an area source of HAP emissions. The engines at this facility have not commenced construction or reconstruction on or after June 12, 2006. Therefore, the engines at this facility meet the definition of an existing stationary RICE as defined in §6590(a)(1)(iii).

§6590(b)(3) states that the following engines do not have to meet the requirements of this subpart and of subpart A of this part:

- stationary RICE which is an existing spark ignition 4 stroke rich burn (4SRB) stationary RICE located at an area source,
- existing spark ignition 4SRB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source, an existing spark ignition 2 stroke lean burn (2SLB) stationary RICE,
- existing spark ignition 4 stroke lean burn (4SLB) stationary RICE,
- existing compression ignition (CI) stationary RICE,
- existing emergency stationary RICE,
- existing limited use stationary RICE, or
- existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis

The engines at this facility are existing emergency stationary RICE, existing limited use stationary RICE, and existing spark ignition 4 stroke lean burn (4SLB) stationary RICE. Therefore, the engines do not have to meet the requirements of this subpart and of subpart A of this part. No further discussion is required.

**Q. 40 CFR Part 64, Compliance Assurance Monitoring (CAM)**

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.

- a. N-811-11-4 and -12-4, 450 bhp Caterpillar Portable Emergency Standby Diesel-Fired IC Engine

Units N-811-11 and -12 are not subject to CAM because they do not have any add-on controls.

- b. N-811-13-3, One 2000 Gallon Above Ground Convault Gasoline Storage Tank Served by Phase I and Phase II Vapor Recovery System

The above ground gasoline storage tank is not subject to CAM because it does do not have emission limits for VOC.

- c. N-811-18-4, 36 MMBtu/hr John Zink Digester Gas-Fired Emergency Flare

The John Zink emergency flare is a back-up control device that will incinerate digester gases during emergencies where the gases could not be combusted by the facility's digester gas/internal combustion engines. The emergency flare is not subject to CAM since the emissions unit does not have add-on controls.

- d. N-811-19-6, 193 hp John Deere Diesel-Fired Low-Use IC Engine

This engine is not subject to CAM since it does not have add-on controls.

- e. N-811-21-4, -22-4, and -23-4, 1408 hp Waukesha Digester/Natural Gas-Fired Lean Burn IC Engines

These engines are not subject to CAM since they do not have add-on controls.

- f. N-811-25-2, 2,550 hp Detroit Diesel Diesel-Fired Emergency Standby IC Engine

This engine is not subject to CAM since it does not have add-on controls.

- g. N-811-26-2, Headworks Facility

The permit unit has emissions limits for VOC, NH<sub>3</sub>, H<sub>2</sub>S, and sulfur compounds. Sulfur compounds are composed of 99% H<sub>2</sub>S. The permit unit uses two bioscubbers to control VOC, Sulfur Compounds, NH<sub>3</sub>, and H<sub>2</sub>S emissions. The pre-control VOC, NH<sub>3</sub>, and H<sub>2</sub>S potential emissions from Project #N-1041402 were estimated to be 3,650 lb-VOC/yr, 12,739 lb-NH<sub>3</sub>/year and 251,401 lb-H<sub>2</sub>S/year. Sulfur compounds (carbonyl sulfide, carbon disulfide, and methyl mercaptan) excluding H<sub>2</sub>S were estimated to be 1,335 lb/yr.

VOC emissions are less than the major source threshold of 50,000 lb/yr. Sulfur compounds and NH<sub>3</sub> emissions are less than the major source threshold of 200,000 lb/yr (100 tons/yr). Therefore, the permit unit is not subject to CAM for VOC, sulfur compounds, and NH<sub>3</sub> emissions.

The permit unit is subject to CAM for H<sub>2</sub>S since H<sub>2</sub>S with pre-control emissions exceeding major source threshold for H<sub>2</sub>S of 200,000 lb/yr (100 tons per year).

Pre-control H<sub>2</sub>S (PE1) concentration provided by applicant = 98500 ppbv  
Molecular weight of H<sub>2</sub>S = 34.08 lb/lb-mol  
Air Flow Rate = 55000 ft<sup>3</sup>/min

$$PE1_{H_2S} = [(Influent\ Concentration\ (ppbv)/10^9) \times Air\ Flow\ Rate\ (cfm) \times (1\ lb-mol/386\ ft^3) \times molecular\ weight\ (lb/lb-mol) \times 60\ min/hr) \times (8760\ hr/yr)]$$

$$= [(98500\ ppbv/10^9) \times (55000\ ft^3/min) \times (1\ lb-mol/386\ ft^3) \times 34.08\ lb/lb-mol \times 60\ min/hr \times 8760\ hr/yr]$$

**= 251,400 lb-H<sub>2</sub>S/yr = 125 ton-H<sub>2</sub>S/yr > 100 ton/yr threshold**

To satisfy CAM requirements, the current weekly monitoring of H<sub>2</sub>S effluent concentration at the exit of each biofilter will be revised to daily monitoring. Since the post-control H<sub>2</sub>S emissions at 99% control will be reduce to 2,514 lb-H<sub>2</sub>S/yr or (524 ppbv as SO<sub>2</sub>)<sup>1</sup> which less than the major threshold, a more frequent monitoring than daily monitoring is not required.

- Conditions 5 and 6 of the permit unit ensure compliance with this requirement.

## **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**

The applicant does not propose to use any model general permit templates.

## **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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<sup>1</sup> At 99% control, the post-project H<sub>2</sub>S emissions concentration is 985.0 ppbv with a molecular weight of 34.08 lb/lb-mol. This emissions factor is converted such that the factor is referenced as all SO<sub>2</sub>: 985.0 ppbv x (34.08 lb-H<sub>2</sub>S/lb-mol ÷ 64.06 lb-SO<sub>2</sub>/lb-mol) = 524 ppbv as SO<sub>2</sub>.

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: N-811-0-3

EXPIRATION DATE: 11/30/2008

## FACILITY-WIDE REQUIREMENTS

1. 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; San Joaquin County Rule 110] Federally Enforceable Through Title V Permit
2. 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; San Joaquin County Rule 110] Federally Enforceable Through Title V Permit
3. {2287} 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
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/19/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {2289} 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
6. {2290} 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
7. {2291} 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
8. {2292} 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
9. {2293} 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: STOCKTON RWCF

Location: 2500 NAVY DR, STOCKTON, CA 95206

N-811-0-3 : Apr 2 2010 12:03PM -- SIONGCOJ

10. {2294} 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
11. {2295} 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
12. {2296} 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
13. {2297} 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
14. {2298} 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
15. {2299} 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
16. {2300} 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
17. {2301} 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
18. {2302} 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
19. {2303} 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
20. {2304} 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
21. {2305} 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
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101] 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. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. 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
26. {2310} 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
27. {2311} 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
28. {2312} 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
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/04) or Rule 8011 (8/19/04). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {2319} 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.

36. {2320} 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
37. {2321} 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
38. {2322} 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
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following SIP requirement: San Joaquin Rule 110 . A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (12/17/09); 8021 (8/19/04); 8031 (8/19/04); 8041 (8/19/04); 8051 (8/19/04); 8061 (8/19/04); and 8071 (9/16/04). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin September 23 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
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] 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: N-811-11-4

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

450 HP CATERPILLAR MODEL 3406 DITA, S/N 75Z1640, PORTABLE EMERGENCY STANDBY DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and San Joaquin County Rule 407 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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.

11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201(amended 12/17/92), and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-12-4

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

450 HP CATERPILLAR MODEL 3406TA, S/N 75Z01455, PORTABLE EMERGENCY STANDBY DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and San Joaquin County Rule 407 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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.

11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201(amended 12/17/92), and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-13-3

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

ONE (1) 2,000 GALLON ABOVE GROUND CONVAULT GASOLINE STORAGE TANK SERVED BY COAXIAL PHASE I VAPOR RECOVERY SYSTEM (G-70-97) AND ONE (1) NOZZLE SERVED BY OPW BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-116-B)

## PERMIT UNIT REQUIREMENTS

1. The operator shall not store gasoline in or otherwise use or operate any gasoline delivery vessel unless such vessel is designed and maintained to be vapor tight. Any delivery vessel into which gasoline vapors have been transferred shall be filled only at a loading facility that is equipped with a certified system that prevents at least 95% by weight of the gasoline vapors displaced from entering the atmosphere. [District NSR Rule and 4621, 5.2.2] Federally Enforceable Through Title V Permit
2. Any open vent pipe on a stationary aboveground gasoline storage tank shall be equipped with a certified pressure-vacuum relief valve set at eight ounces per square inch, unless otherwise specified in the applicable CARB executive order, and provided that such setting will not exceed the vessel's maximum pressure rating. The vent pipes may be manifolded, as per the applicable CARB executive order, to a single pressure-vacuum relief valve meeting the aforementioned specifications. [District NSR Rule and 4621, 5.1.2] Federally Enforceable Through Title V Permit
3. The vapor recovery systems and their components shall be installed, operated, and maintained in accordance with the State certification requirements. [District NSR Rule] Federally Enforceable Through Title V Permit
4. 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 NSR Rule and District Rule 4622] Federally Enforceable Through Title V Permit
5. {2366} This gasoline storage and dispensing equipment shall not be used in retail sales, where gasoline dispensed by the unit is subject to payment of California sales tax on gasoline sales. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. {2367} To ensure that all components of the certified Phase II vapor recovery system are maintained in proper operating condition, the non-retail service station operator shall conduct a maintenance inspection one day per month. [District Rule 4622, 5.4.2] Federally Enforceable Through Title V Permit
7. {2370} The operator shall maintain all records of required monitoring data, facility monthly gasoline throughput, and support information for District inspection for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. {2371} Loading and vapor collection equipment shall be maintained and operated such that there are no liquid component leaks under any conditions, nor any excess organic liquid drainage at disconnect. [District Rule 4621, 5.0] Federally Enforceable Through Title V Permit
9. {2372} The operator shall not transfer or permit the transfer of gasoline from any delivery vessel into any stationary storage container unless such container is equipped with a permanent submerged fill pipe and a certified Phase I vapor recovery system which is maintained and operated according to the manufacturers specifications. [District Rule 4621, 5.1.1] 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.

10. {2374} No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo tank, which attest to the vapor integrity of the tank. [District Rule 4621, 5.2.1] Federally Enforceable Through Title V Permit
11. {2376} The hatch on a delivery vessel shall not be opened for visual inspection unless at least three minutes have elapsed since loading or unloading has stopped. The dome hatch, once opened, shall not be held open longer than three minutes. [District Rule 4621, 5.2.3] Federally Enforceable Through Title V Permit
12. {2377} Gasoline vapors from this unit shall not be purged into the atmosphere. [District Rule 4621, 5.2.4] Federally Enforceable Through Title V Permit
13. {2378} The vapor recovery system shall not create a backpressure in excess of the pressure limits of the delivery vessel certification leak test (18 inches water column). [District Rule 4621, 5.2.5] Federally Enforceable Through Title V Permit
14. {2379} The Reid Vapor Pressure of gasoline stored at this facility shall be determined in accordance with ASTM D 5191. [District Rule 4621, 6.2.1 and 4622, 6.3.3] Federally Enforceable Through Title V Permit
15. {2380} When determining vapor leaks with a portable analyzer the following must occur: 1) The probe inlet shall be 2.5 cm from the potential leak source. 2) The probe shall be moved slowly (approximately 4 cm/sec). If there is any meter deflection at the potential leak source, the probe shall be moved to locate the point of highest meter response. 3) To the greatest extent possible, the probe inlet shall be positioned in the path of the vapor flow from a leak so as to maximize the measured concentration. 4) The detector response time must be equal to or less than 30 seconds and the detector shall not probe any potential leak source for longer than twice the detector response time. 5) As an alternative to the preceding procedures, operators may use the soap bubble method described in the Alternative Screening Procedure in EPA Method 21. [District Rule 4621, 6.2.2] Federally Enforceable Through Title V Permit
16. {2381} The test method to determine vapor tightness of delivery vessels and storage tanks shall be EPA Method 21. [District Rule 4621, 6.2.3 and District Rule 4622, 6.3.4] Federally Enforceable Through Title V Permit
17. {2382} The operator shall not transfer or permit the transfer of gasoline from a stationary storage container into a motor vehicle fuel tank with a capacity of greater than five (5) gallons unless the gasoline dispensing unit used to transfer the gasoline from the stationary storage container to the motor vehicle fuel tank is equipped with and has in operation a certified Phase II vapor recovery system. [District Rule 4622, 5.1] Federally Enforceable Through Title V Permit
18. {2383} The operator of this gasoline dispensing facility, which has installed a permitted certified Phase II vapor recovery system, shall continue to use such system and shall maintain the system and all of its components in good repair in order that such system can continue to comply with the certification recovery efficiency. Any certified Phase II vapor recovery system that has been installed shall not be removed regardless of the amount of gasoline dispensed or how the gasoline is delivered to the facility. [District Rule 4622, 5.3] Federally Enforceable Through Title V Permit
19. {2384} The owner/operator of a gasoline dispensing facility shall implement a periodic maintenance inspection program and document the program in an operation and maintenance (O&M) manual for the certified Phase II vapor recovery system. The O&M manual shall be kept at the facility and made available to any person who operates, inspects, maintains, repairs, or tests the equipment at the facility as well as to the District personnel upon request. The O&M manual shall contain detailed instructions that ensure proper operation and maintenance of the certified Phase II vapor recovery system and its components in compliance with all applicable rules and regulations. The manual shall, at a minimum, include the following current information: 1) All applicable ARB Executive Orders, Approval Letters, and District Permits. 2) The manufacturer's specifications and instructions for installation, operation, repair, and maintenance required pursuant to ARB Certification Procedure CP-201, and any additional instruction provided by the manufacturer. 3) System and/or component testing requirements, including test schedules and passing criteria for each of the standard tests listed in Section 6.0. The owner/operator may include any non-ARB required diagnostic and other tests as part of the testing requirements. 4) Protocol for performing periodic maintenance inspections including the components to be inspected and the defects requiring repair. 5) Additional O&M instructions, if any, that are designed to ensure compliance with the applicable rules, regulations, ARB Executive Orders, and District permit conditions, including replacement schedules for failure or wear prone components. [District Rule 4622, 5.4.1] 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.

20. {2385} Any equipment with a major defect, which is identified during the periodic maintenance inspections, shall be removed from service and, when repaired, duly entered into the O&M manual. The person conducting the inspections shall, at a minimum, verify the following during inspections: 1) That the fueling instructions are clearly displayed with the appropriate toll-free complaint phone number and toxic warning signs. 2) That the following nozzle components are in place and in good condition as specified in ARB Executive Orders: faceplate/facecone, bellows, latching device spring, vapor check valve, spout (proper diameter/vapor collection holes), insertion interlock mechanism, automatic shut-off mechanism, hold open latch. 3) That the hoses are not torn, flattened or crimped. 4) That the vapor path does not contain more than 100 ml of liquid and that the vapor path shall be inspected at least once per calendar month. 5) That the vapor-processing unit is functioning properly. 6) Phase I vapor recovery system components that are functionally part of the Phase II vapor recovery system shall be inspected. The person conducting this inspection shall, at a minimum, verify the following; 1) That the fill caps and vapor caps are not missing, damaged, or loose. 2) That the fill cap gasket and vapor cap gaskets are not missing or damaged. 3) That the fill adapter and vapor adapter are securely attached to the risers. 4) That, where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing, and the dry break (poppet-valve) is not missing or damaged. 5) That the submerged fill tube is not missing or damaged. [District Rule 4622, 5.4.3] Federally Enforceable Through Title V Permit
21. {2386} The operator shall not operate any certified Phase II vapor recovery system or any portion thereof that has a defect listed in Section 94006 of Title 17 of the California Code of Regulations, or an equipment defect that is identified in any applicable ARB Executive Order, until the defect has been repaired, replaced, or adjusted as necessary to correct the defect, and the District has reinspected the system or has authorized its use pending reinspection. Such authorization shall not include the authority to operate the equipment prior to the correction of the defective components. [District Rule 4622, 5.5] Federally Enforceable Through Title V Permit
22. {2387} The operator, upon identification of any of the defects described in the previous permit condition, shall tag "Out-of-Order" all dispensing equipment for which vapor recovery has been impaired. The tagged equipment shall be rendered inoperable and the tag(s) shall not be removed until the defective equipment has been repaired, replaced, or adjusted, as necessary. In the case of defects identified by the District, tagged equipment shall be rendered inoperable, and the tag shall not be removed until the District has been notified of the repairs, and/or the District has inspected and authorized the tagged equipment for use. [District Rule 4622, 5.6] Federally Enforceable Through Title V Permit
23. {2388} All certified Phase II vapor recovery systems and gasoline dispensing equipment shall be maintained to have no leaks. [District Rule 4622, 5.7] Federally Enforceable Through Title V Permit
24. {2389} No person shall top off a motor vehicle fuel tank. [District Rule 4622, 5.9] Federally Enforceable Through Title V Permit
25. {2390} The operator shall not tamper with, or permit tampering with, the system in a manner that would impair the operation or effectiveness of the certified Phase II vapor recovery system. [District Rule 4622, 5.11] Federally Enforceable Through Title V Permit
26. {2391} All liquid removal devices required by ARB Executive Order shall be maintained to achieve a minimum liquid removal rate of five milliliters per gallon. This standard shall apply at dispensing rates exceeding five gallons per minute, unless a higher removal rate is specified in the applicable Executive Order. [District Rule 4622, 5.12] Federally Enforceable Through Title V Permit
27. {2392} Verification must be provided that the certified Phase II vapor recovery system shall meet or exceed the requirements of the tests required of this Permit to Operate. These test results shall be dated and shall contain the names, addresses, and telephone numbers of the companies responsible for system installation and testing. [District Rule 4622, 6.1.3] 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.

28. {2393} A person who performs repairs on any certified Phase I or Phase II vapor recovery system shall provide to the operator a repair log, which the operator shall maintain on the premises and which shall include all of the following: 1) Date and time of each repair. 2) The name of the person(s) who performed the repair, and, if applicable, the name, address and phone number of the person's employer. 3) Description of service performed. 4) Each component that was repaired, serviced, or removed. 5) Each component that was installed as replacement, if applicable. 6) Receipts or other documents for parts used in the repair and, if applicable, work orders which shall include the name and signature of the person responsible for performing the repairs. [District Rule 4622, 6.1.4] Federally Enforceable Through Title V Permit
29. {2394} An operator shall comply with the following certified Phase II vapor recovery system performance verification requirements. 1) The operator shall conduct a Static Leak Test of the certified Phase II vapor recovery system at least once every twelve months. 2) The operator shall conduct a Dynamic Back-Pressure Test of the certified Phase II vapor recovery system at least once every twelve months. 3) For certified Phase II vapor recovery systems with bellows-less nozzles, the operator shall conduct an Air-to-Liquid Volume Ratio Test at least once every six months. 4) For certified Phase II vapor recovery systems with a liquid removal device required by ARB Executive Orders, the operator shall conduct a Liquid Removal Test whenever the liquid in the vapor path exceeds 100 ml of liquid. The amount of liquid in the vapor path shall be determined by lowering the gasoline dispensing nozzle into a container until such time that no more liquid drains from the nozzle. The amount of liquid drained into the container shall be measured using a graduated cylinder or graduated beaker. [District Rule 4622, 6.2.1] Federally Enforceable Through Title V Permit
30. {2395} The operator shall require that the person responsible for the Phase II vapor recovery system performance tests shall use calibrated equipment meeting the calibration range and calibration intervals specified by the manufacturer. This person shall also have completed a District-approved training program or the District's orientation class for testing and any subsequent required refresher class(es). [District Rule 4622, 6.2.2 and 6.2.3] Federally Enforceable Through Title V Permit
31. {2396} The operator shall notify the District at least 15 days prior to any compliance testing required of this PTO. [District Rule 4622, 6.2.4] Federally Enforceable Through Title V Permit
32. {2397} Each certified Phase II vapor recovery system shall be tested within 60 days of completion of installation or major modification. [District Rule 4622, 6.2.5] Federally Enforceable Through Title V Permit
33. {2412} All tests shall be conducted in accordance with the latest version of the following ARB approved test methods, or their equivalents as approved by the U.S. Environmental Protection Agency (EPA), ARB, and the APCO; 1) Static Leak Test for Aboveground Tanks, ARB TP-201.3B. 2) Dynamic Back-Pressure Test, ARB TP-201.4. 3) Air-to-Liquid Volume Ratio Test, ARB TP-201.5. 4) Liquid Removal Test, ARB TP-201.6 [District Rule 4622, 6.3.1] Federally Enforceable Through Title V Permit
34. {2399} For those vapor recovery systems whose ARB Executive Orders specify different tests to be performed instead of, or in addition to, the referenced test methods, or which, by their design, preclude the use of the referenced test methods, shall be tested in accordance with the test procedures specified in the applicable ARB Executive Orders or their equivalents as approved by the APCO, ARB, and EPA. [District Rule 4622, 6.3.2] Federally Enforceable Through Title V Permit
35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4621 (as amended June 18, 1998). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-18-4

EXPIRATION DATE: 11/30/2008

**EQUIPMENT DESCRIPTION:**

36 MMBTU/HR JOHN ZINK MODEL ZTOF DIGESTER GAS FIRED EMERGENCY FLARE

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## PERMIT UNIT REQUIREMENTS

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1. The NO<sub>x</sub> emission concentration shall not exceed 0.06 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The CO emission concentration shall not exceed 0.3 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The VOC emission concentration shall not exceed 0.03 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The SO<sub>x</sub> emission concentration shall not exceed 0.08 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The PM<sub>10</sub> emission concentration shall not exceed 0.02 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Operation of the flare for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Operation of the flare, for other than maintenance purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The flare shall utilize a natural gas or LPG fired pilot. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The flare shall operate with smokeless combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the hours of emergency and non-emergency operation, the fuel consumption, in BTUs, and the nature of the emergency situation shall be kept. The records shall be retained for a minimum of five years and shall be made available for District inspection upon request. [1070 and 4311, 6.2.3] 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, 5.2] 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, 5.3] Federally Enforceable Through Title V Permit
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, 5.4] 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, 5.5] 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:** N-811-19-6

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

193 HP JOHN DEERE MODEL #6466A DIESEL-FIRED LOW-USE IC ENGINE WITH A TURBOCHARGER AND AFTERCOOLER POWERING A SLUDGE DREDGE

## PERMIT UNIT REQUIREMENTS

1. The engine shall not be operated more than 20 hours during any one calendar year. [District Rule 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
2. 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
3. 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
4. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201] 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 Rule 4801 and San Joaquin County Rule 407 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. The permittee shall maintain a record of the cumulative annual hours of operation. The record shall be updated each time the engine is operated. Records shall include the number of hours of operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: dredging, maintenance testing, 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 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-21-4

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)

## PERMIT UNIT REQUIREMENTS

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1. 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 monthly fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
2. The NO<sub>x</sub> emissions shall not exceed 0.87 grams/bhp-hr (65 ppmv @ 15% O<sub>2</sub>). [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
3. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The SO<sub>x</sub> emissions shall not exceed 0.14 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM<sub>10</sub> emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide concentration of the influent digester gas shall not exceed 170 ppmv prior to combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>x</sub> and PM<sub>10</sub> limits of this permit shall be conducted at least once every 24 months. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. Sampling facilities for source testing shall be provided in accordance with the provisions of District Rule 1081 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing for NO<sub>x</sub> shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rule 4701] Federally Enforceable Through Title V Permit
13. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rule 4701] 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. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rule 4701] Federally Enforceable Through Title V Permit
15. Source testing for SO<sub>x</sub> shall be conducted utilizing EPA method 8 and ARB method 100. [District Rule 4801 and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
16. Source testing for PM<sub>10</sub> emissions shall be conducted utilizing CARB method 501 in conjunction with CARB method 5, EPA methods 201 and 202 or EPA methods 201A and 202. If the facility agrees that the PM<sub>10</sub> emissions are equal to the total particulate matter emissions then source testing for PM<sub>10</sub> may be conducted utilizing CARB method 5 including the back half or CARB method 17 including the back half. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall monitor the hydrogen sulfide influent concentration on a daily basis with the use of a Draeger tube or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. All 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
19. The permittee shall monitor and record the stack concentration of O<sub>2</sub> at least once every month using a portable emissions monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO]. 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 1 day of restarting the engine unless monitoring has been performed within the last month. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. The exhaust gas O<sub>2</sub> concentration shall be maintained between 8.83 to 9.20 % O<sub>2</sub> for digester gas and between 9.55% to 9.89% for natural gas. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. If the concentration, as measured by the portable analyzer, is outside the permitted range, the permittee shall return the O<sub>2</sub> to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue outside the permitted range after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within the 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 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of O<sub>2</sub> and NO<sub>x</sub> measurements, (2) the O<sub>2</sub> and NO<sub>x</sub> concentration in percent, (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 limits with the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
23. Records of the quantity and type of fuel burned, in BTUs, the influent hydrogen sulfide concentration, and of the annual SO<sub>x</sub> emissions shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
24. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] 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:** N-811-22-4

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)

## PERMIT UNIT REQUIREMENTS

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1. 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 monthly fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
2. The NO<sub>x</sub> emissions shall not exceed 0.87 grams/bhp-hr (65 ppmv @ 15% O<sub>2</sub>). [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
3. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The SO<sub>x</sub> emissions shall not exceed 0.14 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM<sub>10</sub> emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide concentration of the influent digester gas shall not exceed 170 ppmv prior to combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>x</sub> and PM<sub>10</sub> limits of this permit shall be conducted at least once every 24 months. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing for NO<sub>x</sub> shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rule 4701] Federally Enforceable Through Title V Permit
13. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rule 4701] 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. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rule 4701] Federally Enforceable Through Title V Permit
15. Source testing for SO<sub>x</sub> shall be conducted utilizing EPA method 8 and ARB method 100. [District Rule 4801 and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
16. Source testing for PM<sub>10</sub> emissions shall be conducted utilizing CARB method 501 in conjunction with CARB method 5, EPA methods 201 and 202 or EPA methods 201A and 202. If the facility agrees that the PM<sub>10</sub> emissions are equal to the total particulate matter emissions then source testing for PM<sub>10</sub> may be conducted utilizing CARB method 5 including the back half or CARB method 17 including the back half. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall monitor the hydrogen sulfide influent concentration on a daily basis with the use of a Draeger tube or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. All 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
19. The permittee shall monitor and record the stack concentration of O<sub>2</sub> at least once every month using a portable emissions monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO]. 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 1 day of restarting the engine unless monitoring has been performed within the last month. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. The exhaust gas O<sub>2</sub> concentration shall be maintained between 8.83 to 9.20 % O<sub>2</sub> for digester gas and between 9.55% to 9.89% for natural gas. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. If the concentration, as measured by the portable analyzer, is outside the permitted range, the permittee shall return the O<sub>2</sub> to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue outside the permitted range after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within the 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 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of O<sub>2</sub> and NO<sub>x</sub> measurements, (2) the O<sub>2</sub> and NO<sub>x</sub> concentration in percent, (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 limits with the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
23. Records of the quantity and type of fuel burned, in BTUs, the influent hydrogen sulfide concentration, and of the annual SO<sub>x</sub> emissions shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
24. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] 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: N-811-23-4

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)

## PERMIT UNIT REQUIREMENTS

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1. 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 monthly fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
2. The NO<sub>x</sub> emissions shall not exceed 0.87 grams/bhp-hr (65 ppmv @ 15% O<sub>2</sub>). [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
3. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The SO<sub>x</sub> emissions shall not exceed 0.14 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM<sub>10</sub> emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide concentration of the influent digester gas shall not exceed 170 ppmv prior to combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>x</sub> and PM<sub>10</sub> limits of this permit shall be conducted at least once every 24 months. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. Sampling facilities for source testing shall be provided in accordance with the provisions of District Rule 1081 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing for NO<sub>x</sub> shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rule 4701] Federally Enforceable Through Title V Permit
13. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rule 4701] 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. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rule 4701] Federally Enforceable Through Title V Permit
15. Source testing for SO<sub>x</sub> shall be conducted utilizing EPA method 8 and ARB method 100. [District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing for PM<sub>10</sub> emissions shall be conducted utilizing CARB method 501 in conjunction with CARB method 5, EPA methods 201 and 202 or EPA methods 201A and 202. If the facility agrees that the PM<sub>10</sub> emissions are equal to the total particulate matter emissions then source testing for PM<sub>10</sub> may be conducted utilizing CARB method 5 including the back half or CARB method 17 including the back half. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall monitor the hydrogen sulfide influent concentration on a daily basis with the use of a Draeger tube or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. All 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
19. The permittee shall monitor and record the stack concentration of O<sub>2</sub> at least once every month using a portable emissions monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO]. 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 1 day of restarting the engine unless monitoring has been performed within the last month. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. The exhaust gas O<sub>2</sub> concentration shall be maintained between 8.83 to 9.20 % O<sub>2</sub> for digester gas and between 9.55% to 9.89% for natural gas. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. If the concentration, as measured by the portable analyzer, is outside the permitted range, the permittee shall return the O<sub>2</sub> to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue outside the permitted range after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within the 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 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of O<sub>2</sub> and NO<sub>x</sub> measurements, (2) the O<sub>2</sub> and NO<sub>x</sub> concentration in percent, (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 limits with the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
23. Records of the quantity and type of fuel burned, in BTUs, the influent hydrogen sulfide concentration, and of the annual SO<sub>x</sub> emissions shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
24. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] 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: N-811-25-2

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

2,550 HP DETROIT DIESEL MODEL T1637K16 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW 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. 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
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 6.2 g-NO<sub>x</sub>/bhp-hr, 0.34 g-CO/bhp-hr, or 0.33 g-VOC/bhp-hr. [District NSR Rule, 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.09 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District NSR Rule, Rule 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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
8. 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
9. 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
10. 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
11. 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

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

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] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 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 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: N-811-26-2

EXPIRATION DATE: 11/30/2008

## EQUIPMENT DESCRIPTION:

HEADWORKS FACILITY WITH EMISSIONS CONTROLLED BY TWO CUSTOM HARRINGTON ENVIRONMENTAL ENGINEERING BIOSCRUBBERS (55,000 CFM COMBINED RATING)

## PERMIT UNIT REQUIREMENTS

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1. Volatile Organic Compound (VOC) emissions, from each biofilter controlling the headworks, shall not exceed 2,657 ppbv (as CH<sub>4</sub>). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Sulfur Compound emissions (including Hydrogen Sulfide emissions), from each biofilter controlling the headworks, shall not exceed 708 ppbv (as SO<sub>2</sub>). [District NSR Rule] Federally Enforceable Through Title V Permit
3. Ammonia emissions, from each biofilter controlling the headworks, shall not exceed 1 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Hydrogen Sulfide emissions, from each biofilter controlling the headworks, shall not exceed 524 ppbv (as SO<sub>2</sub>). [District NSR Rule and 40 CFR 64] Federally Enforceable Through Title V Permit
5. The permittee shall monitor the hydrogen sulfide effluent concentration at the exit of each biofilter on a daily basis. The hydrogen sulfide concentration shall be determined via the use of a portable analyzer, Draeger tube, or District approved equivalent method. [District NSR Rule and 40 CFR 64] Federally Enforceable Through Title V Permit
6. The permittee shall maintain a daily record of the hydrogen sulfide effluent concentration at each biofilters exhaust. [District Rule 2520, 9.3.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
7. The permittee shall monitor the VOC concentration at the exit of each biofilter on a quarterly basis. The VOC concentration shall be determined via the use of a portable analyzer or District approved equivalent method. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. This unit shall be tested for compliance with the Ammonia (NH<sub>3</sub>) emissions limit at least once every 12 months. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Ammonia (NH<sub>3</sub>) emissions for source test purposes shall be determined using BAAQMD ST-1B or District approved equivalent method. [District Rule 2520, 9.3.2] 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. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 2520, 9.4.2] 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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# Permit to Operate

**FACILITY:** N-811

**EXPIRATION DATE:** 11/30/2008

**LEGAL OWNER OR OPERATOR:**  
**MAILING ADDRESS:**

STOCKTON RWCF  
2500 NAVY DRIVE  
STOCKTON, CA 95206

**FACILITY LOCATION:**

2500 NAVY DR  
STOCKTON, CA 95206

**FACILITY DESCRIPTION:**

WASTEWATER TREATMENT FACILITY

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: N-811-0-2

EXPIRATION DATE: 11/30/2008

## FACILITY-WIDE REQUIREMENTS

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1. 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
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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: STOCKTON RWCF  
Location: 2500 NAVY DR, STOCKTON, CA 95206  
N-811-0-2 Oct 7 2009 9:07AM - SIONGCOJ

10. 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
11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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.

23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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
32. 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
33. 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
34. 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
35. 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.

36. 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
37. 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
38. 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
39. 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
40. 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
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin September 23 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
42. 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:** N-811-11-3

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

450 HP CATERPILLAR MODEL 3406 DITA, S/N 75Z1640, PORTABLE EMERGENCY STANDBY DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Unit shall be fired only on ARB regulated diesel fuel with a sulfur content of less than 0.05% by weight. The operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 4801 and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
4. The 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 200 hours per year. [District Rule 4701] Federally Enforceable Through Title V Permit
5. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201(amended 12/17/92), and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain annual operating records to include the total hours of operation, the type and quantity (cubic feet of gas) of fuel used, the purpose for operating the engine, all hours of non-emergency and emergency operation. This information shall be submitted to the District upon request and at the end of each calendar year in a manner and form approved by the APCO. [District Rule 4701, 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:** N-811-12-3

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

450 HP CATERPILLAR MODEL 3406TA, S/N 75Z01455, PORTABLE EMERGENCY STANDBY DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Unit shall be fired only on ARB regulated diesel fuel with a sulfur content of less than 0.05% by weight. The operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 4801 and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
4. The 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 200 hours per year. [District Rule 4701] Federally Enforceable Through Title V Permit
5. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201(amended 12/17/92), and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain annual operating records to include the total hours of operation, the type and quantity (cubic feet of gas) of fuel used, the purpose for operating the engine, all hours of non-emergency and emergency operation. This information shall be submitted to the District upon request and at the end of each calendar year in a manner and form approved by the APCO. [District Rule 4701, 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:** N-811-13-2

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

ONE (1) 2,000 GALLON ABOVE GROUND CONVAULT GASOLINE STORAGE TANK SERVED BY COAXIAL PHASE I VAPOR RECOVERY SYSTEM (G-70-97) AND ONE (1) NOZZLE SERVED BY OPW BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-116-B)

## PERMIT UNIT REQUIREMENTS

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1. The operator shall not store gasoline in or otherwise use or operate any gasoline delivery vessel unless such vessel is designed and maintained to be vapor tight. Any delivery vessel into which gasoline vapors have been transferred shall be filled only at a loading facility that is equipped with a certified system that prevents at least 95% by weight of the gasoline vapors displaced from entering the atmosphere. [District NSR Rule and 4621, 5.2.2] Federally Enforceable Through Title V Permit
2. Any open vent pipe on a stationary aboveground gasoline storage tank shall be equipped with a certified pressure-vacuum relief valve set at eight ounces per square inch, unless otherwise specified in the applicable CARB executive order, and provided that such setting will not exceed the vessel's maximum pressure rating. The vent pipes may be manifolded, as per the applicable CARB executive order, to a single pressure-vacuum relief valve meeting the aforementioned specifications. [District NSR Rule and 4621, 5.1.2] Federally Enforceable Through Title V Permit
3. The vapor recovery systems and their components shall be installed, operated, and maintained in accordance with the State certification requirements. [District NSR Rule] Federally Enforceable Through Title V Permit
4. 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 NSR Rule and District Rule 4622] Federally Enforceable Through Title V Permit
5. This gasoline storage and dispensing equipment shall not be used in retail sales, where gasoline dispensed by the unit is subject to payment of California sales tax on gasoline sales. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. To ensure that all components of the certified Phase II vapor recovery system are maintained in proper operating condition, the non-retail service station operator shall conduct a maintenance inspection one day per month. [District Rule 4622, 5.4.2] Federally Enforceable Through Title V Permit
7. The operator shall maintain all records of required monitoring data, facility monthly gasoline throughput, and support information for District inspection for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Loading and vapor collection equipment shall be maintained and operated such that there are no liquid component leaks under any conditions, nor any excess organic liquid drainage at disconnect. [District Rule 4621, 5.0] Federally Enforceable Through Title V Permit
9. The operator shall not transfer or permit the transfer of gasoline from any delivery vessel into any stationary storage container unless such container is equipped with a permanent submerged fill pipe and a certified Phase I vapor recovery system which is maintained and operated according to the manufacturers specifications. [District Rule 4621, 5.1.1] 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.

10. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo tank, which attest to the vapor integrity of the tank. [District Rule 4621, 5.2.1] Federally Enforceable Through Title V Permit
11. The hatch on a delivery vessel shall not be opened for visual inspection unless at least three minutes have elapsed since loading or unloading has stopped. The dome hatch, once opened, shall not be held open longer than three minutes. [District Rule 4621, 5.2.3] Federally Enforceable Through Title V Permit
12. Gasoline vapors from this unit shall not be purged into the atmosphere. [District Rule 4621, 5.2.4] Federally Enforceable Through Title V Permit
13. The vapor recovery system shall not create a backpressure in excess of the pressure limits of the delivery vessel certification leak test (18 inches water column). [District Rule 4621, 5.2.5] Federally Enforceable Through Title V Permit
14. The Reid Vapor Pressure of gasoline stored at this facility shall be determined in accordance with ASTM D 5191. [District Rule 4621, 6.2.1 and 4622, 6.3.3] Federally Enforceable Through Title V Permit
15. When determining vapor leaks with a portable analyzer the following must occur: 1) The probe inlet shall be 2.5 cm from the potential leak source. 2) The probe shall be moved slowly (approximately 4 cm/sec). If there is any meter deflection at the potential leak source, the probe shall be moved to locate the point of highest meter response. 3) To the greatest extent possible, the probe inlet shall be positioned in the path of the vapor flow from a leak so as to maximize the measured concentration. 4) The detector response time must be equal to or less than 30 seconds and the detector shall not probe any potential leak source for longer than twice the detector response time. 5) As an alternative to the preceding procedures, operators may use the soap bubble method described in the Alternative Screening Procedure in EPA Method 21. [District Rule 4621, 6.2.2] Federally Enforceable Through Title V Permit
16. The test method to determine vapor tightness of delivery vessels and storage tanks shall be EPA Method 21. [District Rule 4621, 6.2.3 and District Rule 4622, 6.3.4] Federally Enforceable Through Title V Permit
17. The operator shall not transfer or permit the transfer of gasoline from a stationary storage container into a motor vehicle fuel tank with a capacity of greater than five (5) gallons unless the gasoline dispensing unit used to transfer the gasoline from the stationary storage container to the motor vehicle fuel tank is equipped with and has in operation a certified Phase II vapor recovery system. [District Rule 4622, 5.1] Federally Enforceable Through Title V Permit
18. The operator of this gasoline dispensing facility, which has installed a permitted certified Phase II vapor recovery system, shall continue to use such system and shall maintain the system and all of its components in good repair in order that such system can continue to comply with the certification recovery efficiency. Any certified Phase II vapor recovery system that has been installed shall not be removed regardless of the amount of gasoline dispensed or how the gasoline is delivered to the facility. [District Rule 4622, 5.3] Federally Enforceable Through Title V Permit
19. The owner/operator of a gasoline dispensing facility shall implement a periodic maintenance inspection program and document the program in an operation and maintenance (O&M) manual for the certified Phase II vapor recovery system. The O&M manual shall be kept at the facility and made available to any person who operates, inspects, maintains, repairs, or tests the equipment at the facility as well as to the District personnel upon request. The O&M manual shall contain detailed instructions that ensure proper operation and maintenance of the certified Phase II vapor recovery system and its components in compliance with all applicable rules and regulations. The manual shall, at a minimum, include the following current information: 1) All applicable ARB Executive Orders, Approval Letters, and District Permits. 2) The manufacturer's specifications and instructions for installation, operation, repair, and maintenance required pursuant to ARB Certification Procedure CP-201, and any additional instruction provided by the manufacturer. 3) System and/or component testing requirements, including test schedules and passing criteria for each of the standard tests listed in Section 6.0. The owner/operator may include any non-ARB required diagnostic and other tests as part of the testing requirements. 4) Protocol for performing periodic maintenance inspections including the components to be inspected and the defects requiring repair. 5) Additional O&M instructions, if any, that are designed to ensure compliance with the applicable rules, regulations, ARB Executive Orders, and District permit conditions, including replacement schedules for failure or wear prone components. [District Rule 4622, 5.4.1] 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.

20. Any equipment with a major defect, which is identified during the periodic maintenance inspections, shall be removed from service and, when repaired, duly entered into the O&M manual. The person conducting the inspections shall, at a minimum, verify the following during inspections: 1) That the fueling instructions are clearly displayed with the appropriate toll-free complaint phone number and toxic warning signs. 2) That the following nozzle components are in place and in good condition as specified in ARB Executive Orders: faceplate/facecone, bellows, latching device spring, vapor check valve, spout (proper diameter/vapor collection holes), insertion interlock mechanism, automatic shut-off mechanism, hold open latch. 3) That the hoses are not torn, flattened or crimped. 4) That the vapor path does not contain more than 100 ml of liquid and that the vapor path shall be inspected at least once per calendar month. 5) That the vapor-processing unit is functioning properly. 6) Phase I vapor recovery system components that are functionally part of the Phase II vapor recovery system shall be inspected. The person conducting this inspection shall, at a minimum, verify the following: 1) That the fill caps and vapor caps are not missing, damaged, or loose. 2) That the fill cap gasket and vapor cap gaskets are not missing or damaged. 3) That the fill adapter and vapor adapter are securely attached to the risers. 4) That, where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing, and the dry break (poppet-valve) is not missing or damaged. 5) That the submerged fill tube is not missing or damaged. [District Rule 4622, 5.4.3] Federally Enforceable Through Title V Permit
21. The operator shall not operate any certified Phase II vapor recovery system or any portion thereof that has a defect listed in Section 94006 of Title 17 of the California Code of Regulations, or an equipment defect that is identified in any applicable ARB Executive Order, until the defect has been repaired, replaced, or adjusted as necessary to correct the defect, and the District has reinspected the system or has authorized its use pending reinspection. Such authorization shall not include the authority to operate the equipment prior to the correction of the defective components. [District Rule 4622, 5.5] Federally Enforceable Through Title V Permit
22. The operator, upon identification of any of the defects described in the previous permit condition, shall tag "Out-of-Order" all dispensing equipment for which vapor recovery has been impaired. The tagged equipment shall be rendered inoperable and the tag(s) shall not be removed until the defective equipment has been repaired, replaced, or adjusted, as necessary. In the case of defects identified by the District, tagged equipment shall be rendered inoperable, and the tag shall not be removed until the District has been notified of the repairs, and/or the District has inspected and authorized the tagged equipment for use. [District Rule 4622, 5.6] Federally Enforceable Through Title V Permit
23. All certified Phase II vapor recovery systems and gasoline dispensing equipment shall be maintained to have no leaks. [District Rule 4622, 5.7] Federally Enforceable Through Title V Permit
24. No person shall top off a motor vehicle fuel tank. [District Rule 4622, 5.9] Federally Enforceable Through Title V Permit
25. The operator shall not tamper with, or permit tampering with, the system in a manner that would impair the operation or effectiveness of the certified Phase II vapor recovery system. [District Rule 4622, 5.11] Federally Enforceable Through Title V Permit
26. All liquid removal devices required by ARB Executive Order shall be maintained to achieve a minimum liquid removal rate of five milliliters per gallon. This standard shall apply at dispensing rates exceeding five gallons per minute, unless a higher removal rate is specified in the applicable Executive Order. [District Rule 4622, 5.12] Federally Enforceable Through Title V Permit
27. Verification must be provided that the certified Phase II vapor recovery system shall meet or exceed the requirements of the tests required of this Permit to Operate. These test results shall be dated and shall contain the names, addresses, and telephone numbers of the companies responsible for system installation and testing. [District Rule 4622, 6.1.3] 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.

28. A person who performs repairs on any certified Phase I or Phase II vapor recovery system shall provide to the operator a repair log, which the operator shall maintain on the premises and which shall include all of the following; 1) Date and time of each repair. 2) The name of the person(s) who performed the repair, and, if applicable, the name, address and phone number of the person's employer. 3) Description of service performed. 4) Each component that was repaired, serviced, or removed. 5) Each component that was installed as replacement, if applicable. 6) Receipts or other documents for parts used in the repair and, if applicable, work orders which shall include the name and signature of the person responsible for performing the repairs. [District Rule 4622, 6.1.4] Federally Enforceable Through Title V Permit
29. An operator shall comply with the following certified Phase II vapor recovery system performance verification requirements. 1) The operator shall conduct a Static Leak Test of the certified Phase II vapor recovery system at least once every twelve months. 2) The operator shall conduct a Dynamic Back-Pressure Test of the certified Phase II vapor recovery system at least once every twelve months. 3) For certified Phase II vapor recovery systems with bellows-less nozzles, the operator shall conduct an Air-to-Liquid Volume Ratio Test at least once every six months. 4) For certified Phase II vapor recovery systems with a liquid removal device required by ARB Executive Orders, the operator shall conduct a Liquid Removal Test whenever the liquid in the vapor path exceeds 100 ml of liquid. The amount of liquid in the vapor path shall be determined by lowering the gasoline dispensing nozzle into a container until such time that no more liquid drains from the nozzle. The amount of liquid drained into the container shall be measured using a graduated cylinder or graduated beaker. [District Rule 4622, 6.2.1] Federally Enforceable Through Title V Permit
30. The operator shall require that the person responsible for the Phase II vapor recovery system performance tests shall use calibrated equipment meeting the calibration range and calibration intervals specified by the manufacturer. This person shall also have completed a District-approved training program or the District's orientation class for testing and any subsequent required refresher class(es). [District Rule 4622, 6.2.2 and 6.2.3] Federally Enforceable Through Title V Permit
31. The operator shall notify the District at least 15 days prior to any compliance testing required of this PTO. [District Rule 4622, 6.2.4] Federally Enforceable Through Title V Permit
32. Each certified Phase II vapor recovery system shall be tested within 60 days of completion of installation or major modification. [District Rule 4622, 6.2.5] Federally Enforceable Through Title V Permit
33. All tests shall be conducted in accordance with the latest version of the following ARB approved test methods, or their equivalents as approved by the U.S. Environmental Protection Agency (EPA), ARB, and the APCO; 1) Static Leak Test for Aboveground Tanks, ARB TP-201.3B. 2) Dynamic Back-Pressure Test, ARB TP-201.4. 3) Air-to-Liquid Volume Ratio Test, ARB TP-201.5. 4) Liquid Removal Test, ARB TP-201.6 [District Rule 4622, 6.3.1] Federally Enforceable Through Title V Permit
34. For those vapor recovery systems whose ARB Executive Orders specify different tests to be performed instead of, or in addition to, the referenced test methods, or which, by their design, preclude the use of the referenced test methods, shall be tested in accordance with the test procedures specified in the applicable ARB Executive Orders or their equivalents as approved by the APCO, ARB, and EPA. [District Rule 4622, 6.3.2] Federally Enforceable Through Title V Permit
35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4621 (as amended June 18, 1998). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-18-3

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

36 MMBTU/HR JOHN ZINK MODEL ZTOF DIGESTER GAS FIRED EMERGENCY FLARE

## PERMIT UNIT REQUIREMENTS

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1. The NO<sub>x</sub> emission concentration shall not exceed 0.06 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The CO emission concentration shall not exceed 0.3 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The VOC emission concentration shall not exceed 0.03 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The SO<sub>x</sub> emission concentration shall not exceed 0.08 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The PM<sub>10</sub> emission concentration shall not exceed 0.02 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Operation of the flare for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Operation of the flare, for other than maintenance purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The flare shall utilize a natural gas or LPG fired pilot. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The flare shall operate with smokeless combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the hours of emergency and non-emergency operation, the fuel consumption, in BTUs, and the nature of the emergency situation shall be kept. The records shall be retained for a minimum of five years and shall be made available for District inspection upon request. [1070 and 4311, 6.2.3] 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, 5.2] 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, 5.3] Federally Enforceable Through Title V Permit
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, 5.4] 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, 5.5] 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:** N-811-19-5

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

193 HP JOHN DEERE MODEL #6466A DIESEL-FIRED LOW-USE IC ENGINE WITH A TURBOCHARGER AND AFTERCOOLER POWERING A SLUDGE DREDGE

## PERMIT UNIT REQUIREMENTS

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1. The engine shall not be operated more than 1,000 hours during any one calendar year. [District Rule 4701] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a non-resettable totalizing hour meter. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
6. The operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. If this unit is operated more than 500 hours in any 12 month period, the operator shall perform a source test for particulate emissions within 60 days from the date this limit is exceeded. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.3.2] 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 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] 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. Permittee shall maintain a record of the cumulative annual hours of operation. The record shall be updated each time the engine is operated. [District Rule 4701] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-21-3

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)

## PERMIT UNIT REQUIREMENTS

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1. 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 monthly fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
2. The NO<sub>x</sub> emissions shall not exceed 0.87 grams/bhp-hr (65 ppmv @ 15% O<sub>2</sub>). [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
3. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The SO<sub>x</sub> emissions shall not exceed 0.14 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM<sub>10</sub> emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide concentration of the influent digester gas shall not exceed 170 ppmv prior to combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>x</sub> and PM<sub>10</sub> limits of this permit shall be conducted at least once every 24 months. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. Sampling facilities for source testing shall be provided in accordance with the provisions of District Rule 1081 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing for NO<sub>x</sub> shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rule 4701] Federally Enforceable Through Title V Permit
13. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rule 4701] 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. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rule 4701] Federally Enforceable Through Title V Permit
15. Source testing for SO<sub>x</sub> shall be conducted utilizing EPA method 8 and ARB method 100. [District Rule 4801 and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
16. Source testing for PM<sub>10</sub> emissions shall be conducted utilizing CARB method 501 in conjunction with CARB method 5, EPA methods 201 and 202 or EPA methods 201A and 202. If the facility agrees that the PM<sub>10</sub> emissions are equal to the total particulate matter emissions then source testing for PM<sub>10</sub> may be conducted utilizing CARB method 5 including the back half or CARB method 17 including the back half. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall monitor the hydrogen sulfide influent concentration on a daily basis with the use of a Draeger tube or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. All 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
19. The permittee shall monitor and record the stack concentration of O<sub>2</sub> at least once every month using a portable emissions monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO]. 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 1 day of restarting the engine unless monitoring has been performed within the last month. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. The exhaust gas O<sub>2</sub> concentration shall be maintained between 8.83 to 9.20 % O<sub>2</sub> for digester gas and between 9.55% to 9.89% for natural gas. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. If the concentration, as measured by the portable analyzer, is outside the permitted range, the permittee shall return the O<sub>2</sub> to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue outside the permitted range after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within the 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 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of O<sub>2</sub> and NO<sub>x</sub> measurements, (2) the O<sub>2</sub> and NO<sub>x</sub> concentration in percent, (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 limits with the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
23. Records of the quantity and type of fuel burned, in BTUs, the influent hydrogen sulfide concentration, and of the annual SO<sub>x</sub> emissions shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
24. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-22-3

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)

## PERMIT UNIT REQUIREMENTS

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1. 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 monthly fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
2. The NOx emissions shall not exceed 0.87 grams/bhp-hr (65 ppmv @ 15% O2). [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
3. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The SOx emissions shall not exceed 0.14 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide concentration of the influent digester gas shall not exceed 170 ppmv prior to combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing to demonstrate compliance with the NOx, CO, VOC, SOx and PM10 limits of this permit shall be conducted at least once every 24 months. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing for NOx shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rule 4701] Federally Enforceable Through Title V Permit
13. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rule 4701] 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. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rule 4701] Federally Enforceable Through Title V Permit
15. Source testing for SOx shall be conducted utilizing EPA method 8 and ARB method 100. [District Rule 4801 and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
16. Source testing for PM10 emissions shall be conducted utilizing CARB method 501 in conjunction with CARB method 5, EPA methods 201 and 202 or EPA methods 201A and 202. If the facility agrees that the PM10 emissions are equal to the total particulate matter emissions then source testing for PM10 may be conducted utilizing CARB method 5 including the back half or CARB method 17 including the back half. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall monitor the hydrogen sulfide influent concentration on a daily basis with the use of a Draeger tube or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of NOx at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. All 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
19. The permittee shall monitor and record the stack concentration of O2 at least once every month using a portable emissions monitor that meets District specifications. [In-stack O2 monitors may be allowed if approved by the APCO]. 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 1 day of restarting the engine unless monitoring has been performed within the last month. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. The exhaust gas O2 concentration shall be maintained between 8.83 to 9.20 % O2 for digester gas and between 9.55% to 9.89% for natural gas. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. If the concentration, as measured by the portable analyzer, is outside the permitted range, the permittee shall return the O2 to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue outside the permitted range after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within the 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 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of O2 and NOx measurements, (2) the O2 and NOx concentration in percent, (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 limits with the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
23. Records of the quantity and type of fuel burned, in BTUs, the influent hydrogen sulfide concentration, and of the annual SOx emissions shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
24. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-23-3

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)

## PERMIT UNIT REQUIREMENTS

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1. 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 monthly fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
2. The NO<sub>x</sub> emissions shall not exceed 0.87 grams/bhp-hr (65 ppmv @ 15% O<sub>2</sub>). [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
3. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The SO<sub>x</sub> emissions shall not exceed 0.14 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM<sub>10</sub> emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide concentration of the influent digester gas shall not exceed 170 ppmv prior to combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Source testing to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>x</sub> and PM<sub>10</sub> limits of this permit shall be conducted at least once every 24 months. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. Sampling facilities for source testing shall be provided in accordance with the provisions of District Rule 1081 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing for NO<sub>x</sub> shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rule 4701] Federally Enforceable Through Title V Permit
13. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rule 4701] 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. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rule 4701] Federally Enforceable Through Title V Permit
15. Source testing for SO<sub>x</sub> shall be conducted utilizing EPA method 8 and ARB method 100. [District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing for PM<sub>10</sub> emissions shall be conducted utilizing CARB method 501 in conjunction with CARB method 5, EPA methods 201 and 202 or EPA methods 201A and 202. If the facility agrees that the PM<sub>10</sub> emissions are equal to the total particulate matter emissions then source testing for PM<sub>10</sub> may be conducted utilizing CARB method 5 including the back half or CARB method 17 including the back half. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall monitor the hydrogen sulfide influent concentration on a daily basis with the use of a Draeger tube or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the stack concentration of NO<sub>x</sub> at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. All 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
19. The permittee shall monitor and record the stack concentration of O<sub>2</sub> at least once every month using a portable emissions monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO]. 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 1 day of restarting the engine unless monitoring has been performed within the last month. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. The exhaust gas O<sub>2</sub> concentration shall be maintained between 8.83 to 9.20 % O<sub>2</sub> for digester gas and between 9.55% to 9.89% for natural gas. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
21. If the concentration, as measured by the portable analyzer, is outside the permitted range, the permittee shall return the O<sub>2</sub> to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue outside the permitted range after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within the 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 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of O<sub>2</sub> and NO<sub>x</sub> measurements, (2) the O<sub>2</sub> and NO<sub>x</sub> concentration in percent, (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 limits with the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
23. Records of the quantity and type of fuel burned, in BTUs, the influent hydrogen sulfide concentration, and of the annual SO<sub>x</sub> emissions shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
24. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-25-1

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

2,550 HP DETROIT DIESEL MODEL T1637K16 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW 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 engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The exhaust stack shall not be fitted with a rain cap or similar device which would impede vertical exhaust flow. [District Rule 4102]
4. Only CARB certified fuel containing not more than 0.05% sulfur by weight shall be utilized. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 6.2 g/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 0.34 g/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 0.33 g/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The PM10 emissions shall not exceed 0.09 g/bhp-hr based on U.S. E.P.A. certification using the ISO 8178 test procedure. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
9. The 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 200 hours per year. [District NSR Rule and District Rule 4701] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of operation (e.g., load testing, weekly testing, rolling blackout, general area of power outage, etc.), and the sulfur content of the diesel fuel used. Such records shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-26-1

**EXPIRATION DATE:** 11/30/2008

**EQUIPMENT DESCRIPTION:**

HEADWORKS FACILITY WITH EMISSIONS CONTROLLED BY TWO CUSTOM HARRINGTON ENVIRONMENTAL ENGINEERING BIOSCRUBBERS (55,000 CFM COMBINED RATING)

## PERMIT UNIT REQUIREMENTS

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1. Volatile Organic Compound (VOC) emissions, from each biofilter controlling the headworks, shall not exceed 2,657 ppbv (as CH<sub>4</sub>). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Sulfur Compound emissions (including Hydrogen Sulfide emissions), from each biofilter controlling the headworks, shall not exceed 708 ppbv (as SO<sub>2</sub>). [District NSR Rule] Federally Enforceable Through Title V Permit
3. Ammonia emissions, from each biofilter controlling the headworks, shall not exceed 1 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Hydrogen Sulfide emissions, from each biofilter controlling the headworks, shall not exceed 524 ppbv (as SO<sub>2</sub>). [District NSR Rule] Federally Enforceable Through Title V Permit
5. The permittee shall monitor the hydrogen sulfide effluent concentration at the exit of each biofilter on a weekly basis. The hydrogen sulfide concentration shall be determined via the use of a portable analyzer, Draeger tube, or District approved equivalent method. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The permittee shall maintain a weekly record of the hydrogen sulfide effluent concentration at each biofilters exhaust. [District Rule 2520, 9.3] Federally Enforceable Through Title V Permit
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 2520, 9.4] Federally Enforceable Through Title V Permit

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=811 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>STOCKTON RWCF</b> <b>2500 NAVY DR</b> <b>STOCKTON, CA 95206</b>	<b>FAC #</b> <b>STATUS:</b> <b>TELEPHONE:</b>	<b>N 811</b> <b>A</b> <b>(209) 466-5261</b>	<b>TYPE:</b> <b>TOXIC ID:</b>	<b>TitleV</b> <b>21210</b>	<b>EXPIRE ON:</b> <b>AREA:</b> <b>INSP. DATE:</b>	<b>11/30/2008</b> <b>9 / 302</b> <b>07/10</b>
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-811-11-3	450 hp IC engine	3020-10 D	1	479.00	479.00	A	450 HP CATERPILLAR MODEL 3406 DITA, S/N 75Z1640, PORTABLE EMERGENCY STANDBY DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-811-12-3	450 hp IC engine	3020-10 D	1	479.00	479.00	A	450 HP CATERPILLAR MODEL 3406TA, S/N 75Z01455, PORTABLE EMERGENCY STANDBY DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-811-13-2	1 NOZZLE	3020-11 A	1	34.00	34.00	A	ONE (1) 2,000 GALLON ABOVE GROUND CONVAULT GASOLINE STORAGE TANK SERVED BY COAXIAL PHASE I VAPOR RECOVERY SYSTEM (G-70-97) AND ONE (1) NOZZLE SERVED BY OPW BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-116-B)
N-811-18-3	36,000 kBtu/hr burner	3020-02 H	1	1,030.00	1,030.00	A	36 MMBTU/HR JOHN ZINK MODEL ZTOF DIGESTER GAS FIRED EMERGENCY FLARE
N-811-19-5	193 HP IC ENGINE	3020-10 B	1	117.00	117.00	A	193 HP JOHN DEERE MODEL #6466A DIESEL-FIRED LOW-USE IC ENGINE WITH A TURBOCHARGER AND AFTERCOOLER POWERING A SLUDGE DREDGE
N-811-21-3	1408 hp	3020-10 F	1	749.00	749.00	A	1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)
N-811-22-3	1408 hp	3020-10 F	1	749.00	749.00	A	1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)
N-811-23-3	1408 hp	3020-10 F	1	749.00	749.00	A	1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH SILOXANE SCRUBBER POWERING AN ELECTRICAL GENERATOR (DUAL SILOXANE FILTER SYSTEM (SCRUBBER) USED TO SCRUB THE DIGESTER GAS PRIOR TO COMBUSTION IN ENGINES N-811-21-2, -22-2, & -23-2)
N-811-25-1	2,550 bhp IC engine	3020-10 F	1	749.00	749.00	A	2,550 HP DETROIT DIESEL MODEL T1637K16 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW ELECTRICAL GENERATOR
N-811-26-1	187.5 HP	3020-01 D	1	314.00	314.00	A	HEADWORKS FACILITY WITH EMISSIONS CONTROLLED BY TWO CUSTOM HARRINGTON ENVIRONMENTAL ENGINEERING BIOSCRUBBERS (55,000 CFM COMBINED RATING)