



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

JAN 21 2014

Ms. Debbie Livermore  
City of Stockton Municipal Utilities Department  
2500 Navy Drive  
Stockton, CA 95206

**Re: Notice of Preliminary Decision – Title V Permit Renewal  
District Facility # N-811  
Project # N-1131875**

Dear Ms. Livermore:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for City of Stockton Municipal Utilities Department at 2500 Navy Drive in Stockton, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:MJS/st

Enclosures

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

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Executive Director/Air Pollution Control Officer

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**San Joaquin Valley  
Air Pollution Control District**

**Proposed Title V Permit Renewal Evaluation  
City of Stockton RWCF  
N-811**

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**TITLE V PERMIT RENEWAL EVALUATION  
WASTE WATER TREATMENT FACILITY**

Engineer: Mark Schonhoff  
Date: September 26, 2013

Facility Number: N-811

Facility Name: City of Stockton RWCF

Mailing Address: 2500 Navy Drive  
Stockton, CA 95206

Contact Name: Debbie Livermore  
Telephone: (209) 937-8852

Responsible Official: C. Mel Lytle  
Title: Director of Municipal Utilities

Project Number: N-1131875  
Deemed Complete: July 25, 2013

**I. PROPOSAL**

The City of 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**

2500 Navy Drive  
Stockton, CA

### **III. EQUIPMENT LISTING**

#### **N-811-11-5**

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

#### **N-811-12-5**

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

#### **N-811-13-4**

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-811-18-5**

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

#### **N-811-19-7**

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

#### **N-811-21-6**

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH A 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-811-22-6**

1,408 HP WAUKESHA MODEL L7042GLD DIGESTER GAS/NATURAL GAS-FIRED LEAN BURN PRECOMBUSTION CHAMBER TYPE IC ENGINE WITH A 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-811-23-7**

Current Permit Description:

MODIFICATION OF 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, -22, & -23). NON-COMPLIANT DORMANT EMISSIONS UNIT.

The unit was granted Dormant Emission Unit (DEU) status under Authority-to-Construct permit N-811-23-5. Following repairs to the unit, the applicant requested, and was granted active status. During this reactivation, the permit conditions were properly revised to reflect active status. However, the equipment description was not properly revised. The equipment description revisions necessary to reflect active status will be made at this time and the postmodification equipment description will be:

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, -22, & -23).

**N-811-25-3**

2,550 HP DETROIT DIESEL MODEL T1637K16 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW ELECTRICAL GENERATOR

**N-811-26-3**

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

#### **IV. GENERAL PERMIT TEMPLATE USAGE**

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

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

The applicant has requested to utilize template Number SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

#### **V. SCOPE OF EPA AND PUBLIC REVIEW**

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

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

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

Conditions 1 through 40 of the requirements for permit N-811-0-4.

#### **VI. FEDERALLY ENFORCEABLE REQUIREMENTS**

##### **A. RULES UPDATED**

District Rule 2020, Exemptions  
(amended March 21, 2002 ⇒ amended August 18, 2011)

District Rule 2201, New and Modified Stationary Source Review Rule  
(amended September 21, 2006 ⇒ April 21, 2011)

District Rule 4311, Flares  
(amended June 20, 2002 ⇒ June 18, 2009)

District Rule 4702, Internal Combustion Engines  
(amended January 18, 2007 ⇒ November 14, 2013)

40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary  
Compression Ignition Internal Combustion Engines  
(amended January 30, 2013)

40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary  
Spark Ignition Internal Combustion Engines  
(amended January 30, 2013)

40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion  
Engines  
(amended January 18, 2008 ⇒ March 6, 2013)

40 CFR Part 82 Subpart B, Stratospheric Ozone  
(amended November 9, 2007 ⇒ amended June 25, 2013)

40 CFR Part 82 Subpart F, Stratospheric Ozone  
(amended June 8, 2008 ⇒ amended June 25, 2013)

**B. RULES REMOVED**

None

**C. RULES ADDED**

None

**D. RULES NOT UPDATED**

District 1081, Source Sampling (amended December 16, 1993)

District Rule 1100, Equipment Breakdown (amended December 17, 1992)

District Rule 2010, Permits Required (amended December 17, 1992)

District Rule 2031, Transfer of Permits (amended December 17, 1992)

District Rule 2040, Applications (amended December 17, 1992)

District Rule 2070, Standards for Granting Applications  
(amended December 17, 1992)

District Rule 2080, Conditional Approval (amended December 17, 1992)

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

District Rule 4101, Visible Emissions (amended February 17, 2005)

District Rule 4201, Particulate Matter Concentration  
(amended December 17, 1992)

District Rule 4701, Internal Combustion Engines – Phase 1  
(amended August 21, 2003)

District Rule 4621, Gasoline Transfer Into Stationary Storage Containers,  
Delivery Vessels and Bulk Plants  
(amended December 20, 2007)

District Rule 4622, Gasoline Transfer Into Motor Vehicle Fuel Tanks  
(amended December 20, 2007)

40 CFR Part 64, Compliance Assurance Monitoring (CAM)  
(October 22, 1997)

District Rule 8011, General Requirements (August 19, 2004)

District Rule 8021, Construction, Demolition, Excavation, Extraction and  
other Earth Moving Activities (amended August 19, 2004)

District Rule 8031, Bulk Materials (August 19, 2004)

District Rule 8041, Carryout and Track-out (amended August 19, 2004)

District Rule 8051, Open Areas (amended August 19, 2004)

District Rule 8061, Paved and Unpaved Roads  
(amended August 19, 2004)

District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas  
(amended September 16, 2004)

40 CFR Part 61 Subpart M, National Emission Standard for Asbestos  
(amended July 20, 2004)

## **VII. RULES NOT FEDERALLY ENFORCEABLE**

### **A. RULES UPDATED**

District Rule 4702, Internal Combustion Engines (amended August 18, 2011)  
(amended January 18, 2007 ⇒ August 18, 2011)

### **B. RULES REMOVED**

None

### **C. RULES ADDED**

None

### **D. RULES NOT UPDATED**

District Rule 1070, Inspections (amended December 17, 1992)

District Rule 1160, Emission Statements (amended November 18, 1992)

District Rule 4102, Nuisance (amended December 17, 1992)

District Rule 4801, Sulfur Compounds (amended November 18, 1992)

## **VIII. Permit Requirements**

In this section, the federally enforceable requirements of the rules that were updated or added will be discussed. Clarification of equipment descriptions and the correction of typographical errors that do not change the meaning of an equipment description or condition will be made but not be discussed.

**District Rule 2020, Exemptions**  
**(amended March 21, 2002 ⇒ amended August 18, 2011)**

The changes to this rule do not affect any of the facility permits.

**District Rule 2201, New and Modified Stationary Source Review Rule**  
**(amended September 21, 2006 ⇒ April 21, 2011)**

Although this rule has changed since the Title V permit was last renewed, it does not apply to a permit unit until such time as it is modified as defined in the rule. Therefore, any new Rule 2201 requirements to which the facility may have been subject were applied at the time of the applicable permitting action.

**District Rule 2520, Federally Mandated Operating Permits**

No changes to this Rule have occurred since the TV permit was last renewed; however, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

**Greenhouse Gas Discussion**

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

**District Rule 4311, Flares**  
**(amended June 20, 2002 ⇒ June 18, 2009)**

This rule regulates the operation of flares.

New Title V Permit #	Description	Title V Permit Condition #		Requirement	Basis
		Current	New		
N-811-18-5	36 MMBtu/hr Emergency Flare	11	12	Require a flame to be present at all times that combustible gasses are being vented through the flare	Sect 5.2
		12	13	Ignition system requirements	Sect 5.3
		13	14	Ignition system monitoring	Sect 5.4
		14	15	Flow sensing automatic ignition system	Sect 5.5
		N/A	N/A	40 CFR Part 60.18 requirements applicable to <u>open type</u> air assisted, steam assisted and non-assisted flares	Sect 5.6 N/A – Unit is an enclosed flare
		N/A	N/A	Emission limits (VOC & NOx)	Sect 5.7 N/A – not applicable to emergency flares
		None	16,17,18	Flare Minimization Plan (FMP) requirements	Sect 5.8 & 6.5
		None	23	Monitoring	Sect 5.10
		N/A	N/A	Vent gas flow monitoring	Sect 6.6 – Note 1
		N/A	N/A	Vent gas composition monitoring	Sect 6.7 – Note 1
N/A	N/A	Pilot and purge gas flow monitoring	Sect 6.8 – note 1		
N/A	N/A	Water Seal Monitoring	Sect 6.9.1 – Note 1		
N/A	N/A	Restriction on monitoring system downtime	Sect 6.9.3 – Note 1		
N/A	N/A	Monitoring equipment maint.	Sect 6.10 – Note 1		
N/A	N/A	Video Monitoring	Sect 6.10 – Note 1		

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Note 1: Per section 5.11, sections 6.6, 6.7, 6.8, 6.9 and 6.10 apply to flares operated at petroleum refineries or flares with capacities of equal to or greater than 50 MMBtu/hr. This flare is not located at a petroleum refinery and is not rated at equal to or greater than 50 MMBtu/hr. Therefore, these sections do not apply.

**District Rule 4311, Flares  
(last amended June 18, 2009) - Continued**

New Title V Permit #	Description	Title V Permit Condition #		Requirement	Basis
		Current	New		
N-811-18-5	36 MMBtu/hr Emergency Flare	N/A	N/A	Record keeping	
		N/A	N/A	Compliance determination records	Sect 6.1.1 – Note 2
		10	26	Source test results records	Sect 6.1.2 – Note 3
		N/A	N/A	Emergency duration, fuel use and nature of emergency	Sect 6.1.3
		None	25	Section 4.3 exemption records	Sect 6.1.4 – Note 4
		None	25	Retention of the approved FMP	Sect 6.1.5
		None	25	Annual report records	Sect 6.1.6
		10	27	Monitoring activity records	Sect 6.1.7
		None	23	Record keeping duration	Sect 6.1
		N/A	N/A	Vent gas flow	Sect 5.10
		N/A	N/A	Vent gas composition	Sect 6.6 – Note 1
		N/A	N/A	Pilot and purge gas flow	Sect 6.7 – Note 1
		N/A	N/A	Water seal monitoring	Sect 6.8 – Note 1
		N/A	N/A	Records of flare monitoring system inoperation	Sect 6.9 – Note 1
		N/A	N/A	Video monitoring records	Sect 6.10 - Note 5
		N/A	N/A	Source Testing	
		N/A	N/A	Tested pollutants and frequency	Sect 6.4.2 – Note 3
		N/A	N/A	Test protocol submission	Sect 6.4.2 – Note 3
		N/A	N/A	Submission of results	Sect 6.4.2 – Note 3
		N/A	N/A	Test methods	Sect 6.3 – Note 3
N/A	N/A	Reporting			
None	19	Reporting of monitoring system inoperation	Sect 6.9.1 – Note 1		
None	20	Reporting of Unplanned Flaring Events	Sect 6.2.1		
None	20	Reporting of Reportable Flaring Events	Sect 6.2.2		
None	21, 22	Annual Monitoring Report	Sect 6.2.3, 6.2.3.8, 6.3.5		

Note 2: This requirement applies only to open flares. Since this flare is an enclosed unit, these records are not required (see also sections 6.4.1 and 5.6).

Note 3: This requirement only applies to units that are required to source test to demonstrate compliance with a section 5.7 emission limit. The emission limits do not apply to emergency flares, therefore, source testing is not required and neither are these records.

Note 4: The flare is not operating under the Section 4.3 exemption.

Note 5: Applies only to refinery flares.

**District Rule 4702, Internal Combustion Engines  
(amended January 18, 2007 ⇒ August 18, 2011)**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. This rule applies to any internal combustion engine with a rated brake horsepower greater than 25 horsepower.

Current District Rule 4702 (amended 8/18/11) has not been SIP approved. Attachment D contains the streamlining comparison of the SIP approved District Rule 4702 (1/18/07) to the current District Rule 4702 to show the current rule is as stringent, if not more stringent, than the SIP approved version.

**Emergency Engines:**

The following engines are emergency stand-by units as defined in section 3.15 of this rule. The table below identifies the permit number and the permit changes required.

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-811-11-5 N-811-12-5	450 bhp diesel fired emergency generators	10	13	Modify condition to require records of fuel type	Sect 6.2.3.2
		None	15	Add requirement to retain records for at least 5 years	Sect 6.2.1
N-811-25-3	2,550 bhp diesel fired emergency generator	13	17	Modify condition to require records of fuel type	Sect 6.2.3.2

**Non-Emergency Engines:**

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-811-19-7	193 bhp Low Use diesel fired sludge dredge engine	6	7	Revise to require monitoring during all operation	Sect 5.9.3
		7	8	Add requirement to record the fuel type	Sect 6.2.3.2
		None	9	Add requirement to retain records for at least 5 years.	Sect 6.2.3
N-811-21-6 N-811-22-6 N-811-23-7	1408 bhp digester gas/natural gas fired cogen engine	24	31	Add rule 4702 to the rule citation the record keeping duration condition	Sect 6.2.1
		7	10	Revise fuel sulfur content limit to 5 gr/100 scf	Sect 5.7.2
		N/A	12	Add fuel sulfur content testing requirements and record keeping	Sect 5.10.1 and 6.4.6.2

**Note:** The facility has received Authorities to Construct for the fuel sulfur limit and fuel sulfur testing conditions (new conditions 10 and 12 of permits N-811-21, N-811-22 and N-811-23).

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

Potentially Subject Units:

- N-811-11-5 – 450 bhp diesel emergency generator
- N-811-12-5 – 450 bhp diesel fired emergency generator
- N-811-19-6 – 193 bhp diesel fired low use sludge dredge engine
- N-811-25-3 – 2,550 bhp diesel fired emergency generator

Per section 60.4200(a)(2), only units for which construction was commenced after July 11, 2005 are subject to this subpart. All of these engines were installed prior to this date, therefore, this subpart does not apply.

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

Potentially Subject Units:

- N-811-21-6 – 1,408 bhp SI Digester/Natural Gas fired IC engine
- N-811-22-6 – 1,408 bhp SI Digester/Natural Gas fired IC engine
- N-811-23-7 – 1,408 bhp SI Digester/Natural Gas fired IC engine

Per sections 60.4230(a)(4) and 60.4230(a)(5), only units for which construction was commenced after June 12, 2006 are subject to this subpart. The engines were installed prior to this date, therefore, this subpart does not apply.

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

This subpart applies to each reciprocating internal combustion engine located at a Major or Area source of HAP emissions.

During the previous Title V renewal (Project N-1082072), the facility was determined to be an Area Source of HAP emissions. The Major HAP source thresholds have not changed and with the exception of unit N-811-23, none of the permits have been modified since. Since the Area Source determination, unit N-811-23 underwent a modification to install a siloxane scrubber in the fuel supply system. Such a unit would not cause an increase in HAP emissions, therefore, the facility is still an Area source of HAP emissions.

Additionally, the units currently under consideration are Remote RICE as defined in section 63.6675.

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines - Continued**

The tables that follow summarize the requirements and map the Title V permit conditions.

New Title V Permit #	Description	Title V Permit Condition #		Requirement	Basis
		Current	New		
N-811-11-5 N-811-12-5	450 bhp diesel fired emergency generators	None	10	Require compliance with the requirements of Table 2d:  Change oil and filter every 500 hours of operation or annually, whichever comes first	Sect 63.6603(a)  Table 2d (Category 4a)
		None	11	Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary	Table 2d (Category 4b)
		None	12	Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary	Table 2d (Category 4c)
		None	10, 11, 12	Note: If one of these deadlines passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over	Footnote 2 of Table 2d
		None	10	(This source has the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart)	Footnote 1 of Table 2d and 63.6625(i)
Continued on Next Page					

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal  
Combustion Engines - Continued**

New Title V Permit #	Description	Title V Permit Condition Number		Requirement	Basis
		Current	New		
N-811-11-5 N-811-12-5	450 bhp diesel fired emergency generators	N/A	N/A	Fuel Requirements:  This requirement does not come into effect until 1/1/2015	Sect 63.6604
		None	5	Operate the units in a manner consistent with safety and good air pollution control practices for minimizing emissions	Sect 63.6605(b)
		None	5	Require that engines and after-treatment control devices (if any) be operated and maintained in accordance with manufacturer's emission related written instructions. Alternatively, a facility may develop their own maintenance plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions.	Sect 63.6625(e)(3) & Table 6 (section 9)
		5	3	Require non-resettable hour meter	Sect 63.6625(f)
		4	6	Limit non-emergency operation to 50 hr/yr	Sect 63.6640(f)
		None	14	Maintenance records	Sect 63.6655(e)(2)
		10	13	Operating time records	Sect 63.6655(f)
		N/A	N/A	Remote RICE Requirements	No requirements - Sect 63.6603(f)

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines - Continued**

<b>New Title V Permit #</b>	<b>Description</b>	<b>Requirements</b>
N-811-19-7	193 bhp diesel fired low-use engine	The unit is limited to operating less than 100 hr/yr and is therefore a Limited Use engine as defined in section 63.6675. Since it is rated at less than 500 bhp, is located at an area source of HAP emissions, no requirements apply.

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines - Continued**

New Title V Permit #	Description	Title V Permit Condition #		Requirement	Basis
		Current	New		
N-811-25-3	2,550 bhp diesel fired emergency generator	None	14	Require compliance with the requirements of Table 2d:  Change oil and filter every 500 hours of operation or annually, whichever comes first	63.6603  Table 2d (Category 4a)
		None	15	Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary	Table 2d (Category 4b)
		None	16	Inspect all belts and hoses every 500 hours of operation or annually, whichever comes first, and replace as necessary	Table 2d (Category 4c)
		None	14, 15, 16	Note: If one of these deadlines passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over	Footnote 2 of table 2d
		None	14	(This source has the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart)	Footnote 1 of table 2d and 63.6625(i)
Continued on Next Page					

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal  
Combustion Engines - Continued**

New Title V Permit #	Description	Title V Permit Condition Number		Requirement	Basis
		Current	New		
N-811-25-3	2,550 bhp diesel fired emergency generator	N/A	N/A	Fuel Requirements:  This requirement does not come into effect until 1/1/2015	63.6604
		None	9	Operate the units in a manner consistent with safety and good air pollution control practices for minimizing emissions	63.6605(b)
		None	9	Require that after-treatment control devices (if any) operated and maintained in accordance with manufacturer's emission related written instructions	63.6625(e)(3) & Table 6 (section 9)
		8	4	Require non-resettable hour meter	63.6625(f)
		7	10	Limit non-emergency operation to 50 hr/yr	63.6640(f)
		None	18	Maintenance records	63.6655(e)(2)
		13	17	Operating time records	63.6655(f)
		N/A	N/A	Remote RICE Requirements	No requirements - Sect 63.6603(f)

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal  
Combustion Engines - Continued**

New Title V Permit #	Description	Title V Permit Condition Number		Requirement	Basis
		Current	New		
N-811-21-6 N-811-22-6 N-811-23-7	1408 bhp natural gas 4-Stroke-lean-Burn (4SLB) natural gas and/or digester gas fired spark ignition engine (non-emergency)  <i>The units are Remote RICE as defined in section 63.6675</i>	None	26	Comply with the applicable requirements of Table 2d  Change oil and filter every 2,160 hours of operation or annually, whichever comes first	Sect 63.603 and Sect 63.6640  Table 2d (Category 8a – Remote Stationary RICE – Note 1)
		None	27	Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first (replace as necessary)	Table 2d (Category 8b – Note 1)
		None	28	Inspect all belts and hoses every 2,160 hours of operation or annually, whichever comes first (replace as necessary)	Table 2d (Category 8c – Remote Stationary RICE – Note 1)
		N/A	N/A	(This source may not utilize an oil analysis as described in § 63.6625(j) to extend the specified oil change requirement in Table 2d because it is not a Table 2d, item 5, 6, 7, 9 or 11 source)	Footnote to Table 2d and 63.6625(j)
Continued on Next Page					

Note 1: Category 13 of Table 2d requires non-emergency, non-black-start units that combust landfill or digester gas in quantities of 10 percent or greater to conduct this maintenance at least every 1,400 hours. However, the units are Remote Stationary RICE and are subject to the Category 8 requirements of Table 2d (maintenance every 2,160 hours). These units burn more than 10% digester gas on an annual basis.

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal  
Combustion Engines - Continued**

New Title V Permit #	Description	Title V Permit Condition Number		Requirement	Basis
		Current	New		
N-811-21-6 N-811-22-6 N-811-23-7	1408 bhp natural gas 4-Stroke-lean-Burn (4SLB) natural gas and/or digester gas fired spark ignition engine (non-emergency)  <i>The units are Remote RICE as defined in section 63.6675</i>	None	4	Operate the units and air pollution control equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	63.6605(b)
		None	4	Require that the engine and after-treatment control devices (if any) operated and maintained in accordance with manufacturer's emission related written instructions. Alternatively, a facility may develop their own maintenance plan that ensures operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	63.6625(e)(6) & Table 6 (section 9)
Continued on Next Page					

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal  
Combustion Engines - Continued**

New Title V Permit #	Description	Title V Permit Condition Number		Requirement	Basis
		Current	New		
N-811-21-6 N-811-22-6 N-811-23-7	1408 bhp natural gas 4-Stroke-lean-Burn (4SLB) natural gas and/or digester gas fired spark ignition engine (non-emergency)  <i>The units are Remote RICE as defined in section 63.6675</i>	None	33	Record keeping for units subject to emission and operating limitations	63.6655(a) N/A – not subject to emission or operating limitations
		None	33	Records of Table 6 maintenance activities	63.6655(d)
		None	33	Records of maintenance conducted to demonstrate the unit and control equipment was operated and maintained in accordance with the facility's maintenance plan	63.6655(e)(3)
		None	29	Remote RICE – Annual Evaluation Requirement	Sect 63.6603(f)
		None	30	Remote RICE – Annual Evaluation Records	Sect 63.6603(f)

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

For a unit to be subject to CAM, all of the following must be true:

1. The facility must be a Major Source
2. The unit must have an emission limit for a Major Source Pollutant that is complied with utilizing a control device
3. The uncontrolled emissions of a Major Source pollutant from the unit must be in excess of the Major Source threshold

The facility is a Major Source for NO<sub>x</sub>, CO and VOC, therefore, per section 64.2(a), a CAM analysis is required only for those pollutants.

#### **Permit Units N-811-11, N-811-12, N-811-19:**

These units do not have emission limits or emission controls for NO<sub>x</sub>, CO or VOC, therefore, they are not subject to CAM.

#### **Permit Unit N-811-13:**

This unit does not have an emission limit for NO<sub>x</sub>, CO or VOC. Therefore, it is not subject to CAM.

#### **Permit Unit N-811-18, N-811-21, N-811-22, N-811-23 and N-811-25:**

These units do not utilize control equipment for NO<sub>x</sub>, CO or VOC. Therefore, they are not subject to CAM.

#### **Permit Unit N-811-26:**

As stated above, the facility is a Major Source only for NO<sub>x</sub>, CO and VOC, therefore, the units at the facility can be subject to CAM only for NO<sub>x</sub>, CO and/or VOC (as applicable). Of these pollutants, this unit has an emission limit only for VOC. Therefore, CAM may be required for VOC.

During the processing of the application for project N-1041402, the uncontrolled VOC emissions were determined to be 3,650 lb/yr. The uncontrolled VOC emissions are therefore less than the Major Source threshold of 20,000 pounds per year and CAM is not required.

#### **40 CFR Part 82 Subpart B, Stratospheric Ozone (amended November 9, 2007 ⇒ amended June 25, 2013)**

This rule is addressed by the current Umbrella Template (SJV-UM-0-3), therefore, no discussion is required.

**40 CFR Part 82 Subpart F, Stratospheric Ozone  
(amended June 8, 2008 ⇒ amended June 25, 2013)**

This rule is addressed by the current Umbrella Template (SJV-UM-0-3), therefore, no discussion is required.

**IX. Permit Shields**

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 Permit to Operate is considered compliance with all applicable requirements upon which those conditions are based.

**A. Requirements addressed by Model General Permit Templates**

**1. Model General Permit Template SJV-UM-03**

The facility submitted a Title V General Permit Template Qualification form for the use of Facility-Wide Umbrella General Permit Template SJV-UM-0-3. Therefore, the permit shields granted in General Permit Template SJV-UM-03 are included as conditions 39 and 40 of permit N-811-0-4.

**B. Requirements Not Addressed by Model General Permit Templates**

1. Permit units N-811-11, N-811-12 and N-811-19 include permit shields from San Joaquin County Rule 407. Those permit shields will remain.
2. Permit unit N-811-13 includes a permit shield from District Rule 4621 (1998 version). That permit shield will remain but it will be updated to reflect the current version of the rule (12/12/2007).

**X. Permit Conditions**

See Appendix A – Draft Renewed Title V Operating Permit.

**XI. Appendices**

- Appendix A: Draft Renewed Title V Operating Permit
- Appendix B: Previous Title V Operating Permit
- Appendix C: Detailed Facility List
- Appendix D: TV-009 Form
- Appendix E: Rule 4702 Streamlining Comparison

**Appendix A**  
**Draft Renewed Title V Operating Permit**

**Appendix B**  
**Previous Title V Operating Permit**

**Appendix C**  
**Detailed Facility List**

**Appendix D**  
**TV-009 Form**

**Appendix E**  
**Rule 4702 Streamlining Comparison**

**Appendix A**  
**Draft Renewed Title V Operating Permit**

# San Joaquin Valley Air Pollution Control District

FACILITY: N-811-0-4

EXPIRATION DATE: 1/30/2013

## FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: STOCKTON RWCF  
Location: 2500 NAVY DR, STOCKTON, CA 95206  
N-811-0-4: Oct 15 2013 4:54PM -- SCHOENIGER

9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

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

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

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

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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-811-11-5

EXPIRATION DATE 7/30/2013

## 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

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and 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. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6625(f)] Federally Enforceable Through Title V Permit
4. 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
5. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR Parts 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
6. 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, 17 CCR 93115 and 40 CFR Part 63.6640(f)] Federally Enforceable Through Title V Permit
7. 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
8. 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
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

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

10. The motor oil and the oil filter shall be changed at least every 500 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement specified in Table 2d of this subpart. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
11. The air cleaner shall be inspected at least every 1,000 hours of operation or annually, whichever comes first. The air filter shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
12. All belts and hoses shall be inspected at least once every 500 hours of operation or annually, whichever comes first. The belts and hoses shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation and of the type of fuel used. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6655(f)] Federally Enforceable Through Title V Permit
14. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(2)] Federally Enforceable Through Title V Permit
15. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
16. 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.

**DRAFT**

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-12-5

EXPIRATION DATE: 11/30/2013

## 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. [District Rule 4801 and 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. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6625(f)] Federally Enforceable Through Title V Permit
4. 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
5. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR Parts 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
6. 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, 17 CCR 93115 and 40 CFR Part 63.6640(f)] Federally Enforceable Through Title V Permit
7. 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
8. 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
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

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

10. The motor oil and the oil filter shall be changed at least every 500 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement specified in Table 2d of this subpart. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
11. The air cleaner shall be inspected at least every 1,000 hours of operation or annually, whichever comes first. The air filter shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
12. All belts and hoses shall be inspected at least once every 500 hours of operation or annually, whichever comes first. The belts and hoses shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation and of the type of fuel used. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6655(f)] Federally Enforceable Through Title V Permit
14. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(2)] Federally Enforceable Through Title V Permit
15. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
16. 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-811-13-4

EXPIRATION DATE: 7/30/2013

## EQUIPMENT DESCRIPTION:

ONE (1) 2,000 GALLON ABOVE GROUND CONVULT 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  
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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/faccone, 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 December 12, 2007). 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-811-18-5

EXPIRATION DATE: 11/30/2013

## EQUIPMENT DESCRIPTION:

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

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## 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. [District Rule 4801 and 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. The NOx emission concentration shall not exceed 0.06 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The CO emission concentration shall not exceed 0.3 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The VOC emission concentration shall not exceed 0.03 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The SOx emission concentration shall not exceed 0.08 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The PM10 emission concentration shall not exceed 0.02 lb/mmbtu of heat input. [District NSR Rule] Federally Enforceable Through Title V Permit
8. 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
9. Operation of the flare, for other than maintenance purposes, shall be limited to emergency use. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The flare shall utilize a natural gas or LPG fired pilot. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The flare shall operate with smokeless combustion. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit
13. The outlet shall be equipped with an automatic ignition system, or shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
14. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit

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

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15. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311, 5.5] Federally Enforceable Through Title V Permit
16. Flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. This standard does not apply if the APCO determines that the flaring is caused by an emergency as defined by Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere. [District Rule 4311] Federally Enforceable Through Title V Permit
17. Every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan. [District Rule 4311] Federally Enforceable Through Title V Permit
18. An updated FMP shall be submitted by the operator pursuant to Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated FMP submittals are only required if: (1) The equipment change would require an authority to construct (ATC) and would impact the emissions from the flare, and (2) The ATC is deemed complete after June 18, 2009, and (3) The modification is not solely the removal or decommissioning of equipment that is listed in the FMP, and has no associated increase in flare emissions. [District Rule 4311] Federally Enforceable Through Title V Permit
19. The operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, whichever ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time. [District Rule 4311] Federally Enforceable Through Title V Permit
20. The operator of a flare subject to flare minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include, but is not limited to all of the following: the results of an investigation to determine the primary cause and contributing factors of the flaring event; any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented; if appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and the date, time, and duration of the flaring event. [District Rule 4311] Federally Enforceable Through Title V Permit
21. The operator of a flare subject to flare monitoring requirements pursuant to Section 5.10 shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following: the total volumetric flow of vent gas in standard cubic feet for each day; if the flow monitor used pursuant to Section 5.10 measures molecular weight, the average molecular weight for each hour of each month; a flow verification report which shall include flow verification testing pursuant to Section 6.3.5. [District Rule 4311] Federally Enforceable Through Title V Permit
22. For purposes of the flow verification report required by Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA: EPA Methods 1 and 2; a verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10; tracer gas dilution or velocity; other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter. [District Rule 4311] Federally Enforceable Through Title V Permit
23. The permittee shall monitor and record the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. [District Rule 4311] Federally Enforceable Through Title V Permit
24. Records of the annual hours of emergency and non-emergency operation, and the nature of the emergency situation shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Permittee shall maintain the following records: a copy of the source testing result conducted pursuant to Section 6.4.2; a copy of the approved flare minimization plan pursuant to Section 6.5; a copy of annual reports submitted to the APCO pursuant to Section 6.2. [District Rule 4311] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. Permittee shall maintain records of the following when the flare is used during an emergency: duration of flare operation, amount of gas burned, and the nature of the emergency situation. The records shall be kept separately for each emergency episode. [District Rule 4311] Federally Enforceable Through Title V Permit
27. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 2201 and 4311] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-19-7

**EXPIRATION DATE:** 11/30/2013

**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. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and 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. The engine shall not be operated more than 20 hours during any one calendar year. [District Rules 4701, 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 Rules 4701, 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
7. The permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain a record of the cumulative annual hours of operation and of the type of fuel used. 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
9. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. 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-811-21-6

EXPIRATION DATE 7/30/2013

## 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

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and 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. 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
4. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR Parts 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
5. The NO<sub>x</sub> emissions shall not exceed 65 ppmv @ 15% O<sub>2</sub>. [District NSR Rule and District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule and District Rules 4701 and 4701] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule and District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. The SO<sub>x</sub> emissions shall not exceed 0.036 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The PM<sub>10</sub> emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The fuel sulfur content shall not exceed 5 grains of total sulfur per 100 standard cubic feet. [District Rule 4702] Federally Enforceable Through Title V Permit
11. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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12. The fuel sulfur content shall be determined on an annual basis utilizing EPA Method 11 or EPA Method 15 as appropriate. Records of the fuel analyses shall be kept and provided to the District upon request. [District Rule 4702] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. Source testing for NOx shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
17. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
18. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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25. 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
26. The motor oil and the motor oil filter shall be changed at least every 2,160 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
27. The spark plugs shall be inspected at least every 2,160 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
28. All belts and hoses shall be inspected at least once every 2,160 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
29. The facility operator shall reevaluate the the Remote Stationary RICE status of this unit at least once every 12 months. If the evaluation shows that the unit no longer meets the definition of Remote Stationary Rice in this subpart, the operator shall comply with all of the requirements that apply to this unit within 1 year of the evaluation [40 CFR Part 63.6603(f)] Federally Enforceable Through Title V Permit
30. The facility operator shall keep records of the initial and annual evaluation of the Remote Stationary RICE status of the engine. [40 CFR Part 63.6603(f)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(3)] Federally Enforceable Through Title V Permit
34. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 2520, 9.4.2 and 4702] 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-811-22-6

EXPIRATION DATE: 11/30/2013

## 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

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and 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. 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
4. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR Parts 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 65 ppmv @ 15% O2. [District NSR Rule and District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule and District Rules 4701 and 4701] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule and District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 0.036 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The PM10 emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The fuel sulfur content shall not exceed 5 grains of total sulfur per 100 standard cubic feet. [District Rule 4702] Federally Enforceable Through Title V Permit
11. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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12. The fuel sulfur content shall be determined on an annual basis utilizing EPA Method 11 or EPA Method 15 as appropriate. Records of the fuel analyses shall be kept and provided to the District upon request. [District Rule 4702] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. Source testing for NOx shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
17. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
18. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. 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
26. The motor oil and the motor oil filter shall be changed at least every 2,160 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
27. The spark plugs shall be inspected at least every 2,160 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
28. All belts and hoses shall be inspected at least once every 2,160 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
29. The facility operator shall reevaluate the the Remote Stationary RICE status of this unit at least once every 12 months. If the evaluation shows that the unit no longer meets the definition of Remote Stationary Rice in this subpart, the operator shall comply with all of the requirements that apply to this unit within 1 year of the evaluation [40 CFR Part 63.6603(f)] Federally Enforceable Through Title V Permit
30. The facility operator shall keep records of the initial and annual evaluation of the Remote Stationary RICE status of the engine. [40 CFR Part 63.6603(f)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(3)] Federally Enforceable Through Title V Permit
34. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 2520, 9.4.2 and 4702] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-23-7

EXPIRATION DATE: 7/30/2013

## 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, -22, & -23).

## 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. [District Rule 4801 and 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. 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
4. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR Parts 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 65 ppmv @ 15% O2. [District NSR Rule and District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 2.65 grams/bhp-hr. [District NSR Rule and District Rules 4701 and 4701] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 0.75 grams/bhp-hr. [District NSR Rule and District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 0.036 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The PM10 emissions shall not exceed 0.1 grams/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The fuel sulfur content shall not exceed 5 grains of total sulfur per 100 standard cubic feet. [District Rule 4702] Federally Enforceable Through Title V Permit
11. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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12. The fuel sulfur content shall be determined on an annual basis utilizing EPA Method 11 or EPA Method 15 as appropriate. Records of the fuel analyses shall be kept and provided to the District upon request. [District Rule 4702] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. Source testing for NOx shall be conducted utilizing CARB method 100 or EPA method 7E. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
17. Source testing for CO shall be conducted utilizing CARB method 100 or EPA method 10. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
18. Source testing for VOC emission concentration shall be conducted utilizing EPA method 25 or EPA method 18, referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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25. 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
26. The motor oil and the motor oil filter shall be changed at least every 2,160 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
27. The spark plugs shall be inspected at least every 2,160 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
28. All belts and hoses shall be inspected at least once every 2,160 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
29. The facility operator shall reevaluate the the Remote Stationary RICE status of this unit at least once every 12 months. If the evaluation shows that the unit no longer meets the definition of Remote Stationary Rice in this subpart, the operator shall comply with all of the requirements that apply to this unit within 1 year of the evaluation [40 CFR Part 63.6603(f)] Federally Enforceable Through Title V Permit
30. The facility operator shall keep records of the initial and annual evaluation of the Remote Stationary RICE status of the engine. [40 CFR Part 63.6603(f)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(3)] Federally Enforceable Through Title V Permit
34. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 2520, 9.4.2 and 4702] 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-811-25-3

EXPIRATION DATE: 11/30/2013

## EQUIPMENT DESCRIPTION:

2,550 HP DETROIT DIESEL MODEL T1637K16 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW 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. [District Rule 4801 and 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. 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
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6625(f)] Federally Enforceable Through Title V Permit
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. 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
7. 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
8. 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
9. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR Parts 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 4701 and 4702, 17 CCR 93115 and 40 CFR Part 63.6640(f)] 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. 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 Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. 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
14. The motor oil and the oil filter shall be changed at least every 500 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement specified in Table 2d of this subpart. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
15. The air cleaner shall be inspected at least every 1,000 hours of operation or annually, whichever comes first. The air filter shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
16. All belts and hoses shall be inspected at least once every 500 hours of operation or annually, whichever comes first. The belts and hoses shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of emergency and non-emergency operation and of the type of fuel used. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4701 and 4702, 17 CCR 93115 and 40 CFR Part 63.6655(f)] Federally Enforceable Through Title V Permit
18. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(2)] Federally Enforceable Through Title V Permit
19. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
20. 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.

**DRAFT**

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-26-3

EXPIRATION DATE: 11/30/2013

## EQUIPMENT DESCRIPTION:

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

## 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. [District Rule 4801 and 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. 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
4. 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
5. Ammonia emissions, from each biofilter controlling the headworks, shall not exceed 1 ppmv. [District NSR Rule] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

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

14. 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.

Facility Name: STOCKTON RWCF  
Location: 2500 NAVY DR, STOCKTON, CA 95208  
N-811-26-3: Oct 15 2013 4:54PM - BCHONHOM

**DRAFT**

**Appendix B**  
**Previous Title V Operating Permit**

# San Joaquin Valley Air Pollution Control District

FACILITY: N-811-0-3

EXPIRATION DATE: 11/30/2013

## 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; 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. 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. 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: 2600 NAVY DR, STOCKTON, CA 95208  
N-811-0-3, Sep 28 2013 9:54AM - ECHOHOM

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 (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. 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 (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. 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 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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-11-4

EXPIRATION DATE: 11/30/2013

## 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

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.



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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-811-13-3

EXPIRATION DATE: 11/30/2013

## 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-811-18-4

EXPIRATION DATE: 11/30/2013

## 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-811-19-6

**EXPIRATION DATE:** 11/30/2013

**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 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: 11/30/2013

## 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 District 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-811-22-5

EXPIRATION DATE: 11/30/2013

## 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 nonresetable fuel meter and a nonresetable elapsed operating time meter. In lieu of installing a nonresetable 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 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-811-23-6

EXPIRATION DATE: 11/30/2013

## 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, -22, & -23).

## PERMIT UNIT REQUIREMENTS

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 grains/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 District 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 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-811-25-2

EXPIRATION DATE: 11/30/2013

## EQUIPMENT DESCRIPTION:

2,550 HP DETROIT DIESEL MODEL T1637K16 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A  
1750 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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-NOx/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-PM10/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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-811-26-2

**EXPIRATION DATE:** 11/30/2013

**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 biofilter's 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.

**Appendix C**  
**Detailed Facility List**

SJVUAPCD  
NORTHERN

**Detailed Facility Report**

For Facility=811

9/25/13

3:47 pm

Sorted by Facility Name and Permit Number

STOCKTON RWCF 2500 NAVY DR STOCKTON, CA 95206	FAC # STATUS: TELEPHONE:	N 811 A 2094665261	TYPE: TOXIC ID:	TitleV 21210	EXPIRE ON: AREA: INSP. DATE:	11/30/2013 9/302 02/13
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-811-1-0	LESS THAN 20 HP	3020-01 A	1	87.00	87.00	D	PAINT SPRAY BOOTH **** DELETED 12/05/96 ****
N-811-2-0	LESS THAN 20 HP	3020-01 A	1	87.00	87.00	D	SANDBLAST BUILDING
N-811-3-1	600 HP	3020-10 D	1	479.00	479.00	D	ENGINE/GENERATOR, 600 HP WAKESHA, DIGESTOR GAS/NATURAL GAS FIRED
N-811-4-1	600 HP	3020-10 D	1	479.00	479.00	D	ENGINE/GENERATOR, 600 HP WAKESHA, DIGESTOR GAS/NATURAL GAS FIRED
N-811-5-1	600 HP	3020-10 D	1	479.00	479.00	D	ENGINE/GENERATOR, 600 HP WAKESHA, DIGESTOR GAS/NATURAL GAS
N-811-6-2	470 H.P.	3020-10 D	1	479.00	479.00	D	EMERGENCY STANDBY GENERATOR SERVED BY A 450 HP CATERPILLAR D343TA DIESEL ENGINE
N-811-7-2	400 H.P.	3020-10 D	1	479.00	479.00	D	ONE 400 H.P. ALLIS-CHAMBERS STANDBY DIESEL ENGINE-GENERATOR 300 KW; LOCKED AT ENGINE ROOM.
N-811-8-0	2 NOZZLES	3020-11 A	2	34.00	68.00	D	ONE (1) 5,000 GALLON AND ONE (1) 3,000 GALLON GASOLINE STORAGE TANKS SERVED BY OPW COAXIAL PHASE I VAPOR RECOVERY SYSTEM AND TWO (2) NOZZLES SERVED BY BALANCE PHASE II VAPOR RECOVERY SYSTEM. *PER LETTER (2/28/95) FROM FACILITY TANKS WERE REMOVED*
N-811-9-2	93 HP	3020-10 A	1	80.00	80.00	D	ONE (1) 93 HP DETROIT DIESEL IC ENGINE (SERIAL # 50437101) USED TO POWER AN EMERGENCY AIR COMPRESSOR FOR SUPPLYING PLANT SERVICE AIR
N-811-10-3	165 HP IC Engine	3020-10 B	1	117.00	117.00	D	165 HP WAUKESHA MODEL F1197GU LPG-FIRED EMERGENCY IC ENGINE POWERING A 125 KW ELECTRICAL GENERATOR
N-811-11-4	450 bhp 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-811-12-4	450 bhp 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-811-13-3	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-811-14-1	5170 KBTU/HR	3020-02 G	1	815.00	815.00	D	WASTE DIGESTER GAS BURNER ASSEMBLY RATED AT 5.17 MMBTU/HR

**Detailed Facility Report**

For Facility=811

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-811-18-4	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-811-19-6	193 bhp 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-811-21-4	1,408 bhp IC engine	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-811-22-5	1,408 bhp IC engine	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). DORMANT EMISSION UNIT.
N-811-23-6	1,408 bhp IC engine	3020-10 F	1	749.00	749.00	A	MODIFICATION OF 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, -22, & -23). NON-COMPLIANT DORMANT EMISSIONS UNIT.:
N-811-25-2	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-811-26-2	187.5 electric motor 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)

Number of Facilities Reported: 1

**Appendix D**  
**TV-009 Form**

# San Joaquin Valley Air Pollution Control District

## TITLE V COMPLIANCE CERTIFICATION FORM

**I. TYPE OF PERMIT ACTION (Check appropriate box)**

INITIAL TITLE V PERMIT                       PERMIT RENEWAL                       NEW TITLE V PERMIT

COMPANY NAME: City of Stockton -MUD	FACILITY ID: N - 811
1. Type of Organization: <input type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Utility	
2. Owner's Name: City of Stockton-MUD	
3. Agent to the Owner: C. Mel Lytle Ph.D.	
4. Compliance Certifications will be submitted on:	
year 1: <u>11 / 30 / 13</u> year 2: <u>11 / 30 / 14</u> year 3: <u>11 / 30 / 15</u> year 4: <u>11 / 30 / 16</u> year 5: <u>11 / 30 / 16</u>	
Other dates if required by regulations or compliance schedule: _____	

**II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial each circle for confirmation):**

- Based on information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) which the source is in compliance as identified in the Compliance Plan.
- Based on information and belief formed after reasonable inquiry, the source identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term as identified in the Compliance Plan, on a timely basis.
- Based on information and belief formed after reasonable inquiry, the source identified in this application is not in compliance at the time of permit issuance with the applicable federal requirement(s), as identified in the Compliance Plan, and I have attached a compliance schedule.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

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

\_\_\_\_\_  
Signature of Responsible Official

5/30/13  
Date

C. Mel Lytle Ph.D.  
\_\_\_\_\_  
Name of Responsible Official (please print)

Director of Municipal Utilities  
\_\_\_\_\_  
Title of Responsible Official (please print)

**Appendix E**  
**Rule 4702 Streamlining Comparison**

**Comparison of the Non-SIP amended version (amended August 18, 2011) of District Rule 4702 (Internal Combustion Engines) with the SIP approved version (amended January 18, 2007) of District Rule 4702 (Internal Combustion Engines – Phase 2)**

Section	SIP Version of Rule 4702 (Amended January 18, 2007)	Non-SIP Version of Rule 4702 (Amended August 18, 2011)	Conclusion
1.0 Purpose	1.0 The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines.	1.0 The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), volatile organic compounds (VOC), and sulfur oxides (SOx) from internal combustion engines.	There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.
2.0 Applicability	2.0 This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower.	2.0 This rule applies to any internal combustion engine rated at 25 brake horsepower or greater.	There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.
4.0 Exemptions	<p>4.1 The requirements of this rule shall not apply to the following engines:</p> <p>4.1.1 An engine used to propel implements of husbandry, as that term is defined in Section 36000 of the California Vehicle Code, as that section existed on January 1, 2003.</p> <p>4.1.2 An engine used exclusively to power a wind machine.</p> <p>4.1.3 A de-rated spark-ignited engine not used in agricultural operations, provided the de-rating occurred before June 1, 2004.</p> <p>4.1.4 A de-rated spark-ignited engine used in agricultural operations or a de-rated compression-ignited engine, provided the de-rating occurred before June 1, 2005.</p> <p>4.1.5 An engine used exclusively to power Mobile Agricultural Equipment.</p> <p>4.2 Except for the requirements of Section 5.7 and Section 6.2.3, the requirements of this rule shall not apply to:</p> <p>4.2.1 An emergency standby engine as defined in Section 3.0 of this rule, and provided that it is operated with a nonresettable elapsed operating time meter. In lieu of a nonresettable time meter, the owner of an emergency engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.</p> <p>4.2.2 An internal combustion engine that is</p>	<p>4.1 The requirements of this rule shall not apply to the following engines:</p> <p>4.1.1 An engine used to propel implements of husbandry, as that term is defined in Section 36000 of the California Vehicle Code, as that section existed on January 1, 2003.</p> <p>4.1.2 An engine used exclusively to power a wind machine.</p> <p>4.1.3 A de-rated spark-ignited engine not used in agricultural operations, provided the de-rating occurred before June 1, 2004.</p> <p>4.1.4 A de-rated spark-ignited engine used in agricultural operations or a de-rated compression-ignited engine, provided the de-rating occurred before June 1, 2005.</p> <p>4.1.5 An engine used exclusively to power Mobile Agricultural Equipment.</p> <p>4.1.6 An internal combustion engine registered as a portable emissions unit under the Statewide Portable Equipment Registration Program pursuant to California Code of Regulations Title 13, Division 3, Chapter 9, Article 5, Sections 2450-2465.</p> <p>4.1.7 An internal combustion engine registered as a portable emissions unit under Rule 2280 (Portable Equipment Registration).</p> <p>4.2 Except for the requirements of Sections 5.9 and 6.2.3, the requirements of this rule shall not apply to an emergency standby engine or a low-use engine, provided that the engine is operated with an operating nonresettable elapsed time meter.</p> <p>4.2.1 In lieu of operating a nonresettable</p>	<p>The non-SIP version of this rule includes several operations that are not required to meet the requirements of this rule. These operations were added to clarify what operations are subject to this rule. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

operated no more than 200 hours per calendar year as determined by an operational nonresettable elapsed operating time meter and provided the engine is not used to perform any of the functions specified in Section 4.2.2.1 through Section 4.2.2.3 below. In lieu of a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

4.2.2.1 To generate electrical power that is either fed into the electrical utility power grid or used to reduce electrical power purchased by a stationary source,

4.2.2.2 To generate mechanical power that is used to reduce electrical power purchased by a stationary source, or

4.2.2.3 In a distributed generation application.

4.3 Except for the administrative requirements of Section 6.2.3, the requirements of this rule shall not apply to:

4.3.1 An internal combustion engine that meets the following conditions:

4.3.1.1 The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood, and

4.3.1.2 Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and

4.3.1.3 The engine is operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

4.3.2 An internal combustion engine registered as a portable emissions unit

elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time, provided that the alternative is approved by the APCO and EPA and is allowed by the Permit-to-Operate or Permit-Exempt Equipment Registration. The operator must demonstrate that the alternative device, method, or technique is equivalent to using a nonresettable elapsed time meter.

4.2.2 The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

4.3 Except for the administrative requirements of Section 6.2.3, the requirements of this rule shall not apply to the following:

4.3.1 An internal combustion engine that meets the following conditions:

4.3.1.1 The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood; and

4.3.1.2 Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine; and

4.3.1.3 The engine is operated with an operational nonresettable elapsed time meter. In lieu of installing a nonresettable elapsed time meter, the operator of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and EPA. The operator of the engine shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

4.3.2 Military Tactical Equipment and engines used to retract military aircraft arresting gear cables.

4.4 For existing facilities, a replacement unit installed for the sole purpose of complying with the requirements of this rule shall be considered to be an emission control technique and shall be exempt from the Best Available Control Technology (BACT) and offsets requirements of District Rule 2201 (New and Modified Stationary Source Review Rule) provided that all other requirements of Rule 2201 are met.

	<p>under Rule 2280 (Portable Equipment Registration) or the Statewide Portable Equipment Registration Program pursuant to Sections 2450-2465, Article 6, Title 13, California Code of Regulations.</p> <p>4.3.3 Military Tactical Equipment and engines used to retract military aircraft arresting gear cables.</p> <p>4.4. A replacement engine installed for the sole purpose of complying with the requirements of this rule shall be exempt from the Best Available Control Technology (BACT) and Offset requirements of District Rule 2201 (New and Modified Stationary Source Review Rule) provided that all of the following conditions are met:</p> <p>4.4.1 The replacement engine is of equal or lesser horsepower rating of the engine being replaced.</p> <p>4.4.2 The replacement engine is subject to the same operational parameters (e.g. hours of operation, fuel use limitations, etc.) as the engine being replaced.</p> <p>4.4.3 The replacement engine performs the same function as the engine being replaced, and</p> <p>4.4.4 The emissions of the replacement engine are no greater than the emissions of the engine being replaced.</p>	<p>4.5 Except for the requirements of Section 5.1, the requirements of this rule shall not apply to stationary engines rated at least 25 Brake Horsepower, up to, and including 50 Brake Horsepower.</p>	
<p>5.0 Requirements</p>	<p>Note: Section 5.0 requirements refer to Tables 1 through 4, which list the emission limits/standards for various categories of IC engines subject to this rule. These Tables are included at the end of this Stringency Comparison for each version of the rule.</p> <p>N/A</p>	<p>5.1 Stationary Engines Rated at Least 25 Brake Horsepower, Up To, and Including 50 Brake Horsepower and Used in Non-Agricultural Operations (Non-AO)</p> <p>5.1.1 On and after July 1, 2012, no person shall sell or offer for sale any non-AO spark-ignited engine or any non-AO compression-ignited engine unless the engine meets the applicable requirements and emission limits specified in 40 Code of Federal Regulation (CFR) 60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) and 40 CFR 60 Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines) for the year in which the ownership of the engine changes.</p> <p>5.1.2 By January 1, 2013, the operator shall submit a one-time report that includes the number of engines at the stationary source, and the following information for each engine:</p> <p>5.1.2.1 Location of each engine, 5.1.2.2 Engine manufacturer,</p>	<p>The SIP version does not apply to engines rated between 25 and 50 bhp. Therefore, the Non-SIP Version of the rule is more stringent.</p>

		<p>5.1.2.3 Model designation and engine serial number,</p> <p>5.1.2.4 Rated brake horsepower,</p> <p>5.1.2.5 Type of fuel and type of ignition,</p> <p>5.1.2.6 Combustion type: rich-burn, lean-burn, or compression ignition,</p> <p>5.1.2.7 Purpose, and intended use, of the engine,</p> <p>5.1.2.8 Typical daily operating schedule, and</p> <p>5.1.2.9 Fuel consumption (cubic feet for gas or gallons for liquid fuel) for the previous one-year period.</p>	
	<p>5.1 Engine Emission Limits/Standards</p> <p>5.1.1 Spark-ignited Internal Combustion Engine Emission Limits/Standards - The owner of a spark-ignited internal combustion engine shall not operate it in such a manner that results in emissions exceeding the limits in Table 1 below for the appropriate engine type according to the compliance schedules listed in Section 7.0 or according to the compliance dates specified in Table 1 below. A spark-ignited engine shall comply with the applicable emission limits pursuant to Section 5.1 or Section 8.0.</p>	<p>5.2 Stationary Engines Rated at Greater than 50 Brake Horsepower (&gt;50 bhp)</p> <p>5.2.1 Spark Ignited Engines Used in non-AO - Table 1 Emission Limits/Standards</p> <p>The operator of a spark-ignited internal combustion engine rated at &gt;50 bhp that is used exclusively in non-AO shall not operate it in such a manner that results in emissions exceeding the limits in Table 1 for the appropriate engine type until such time that the engine has demonstrated compliance with Table 2 emission limits pursuant to the compliance deadlines in Section 7.5. In lieu of complying with Table 1 emission limits, the operator of a spark-ignited engine shall comply with the applicable emission limits pursuant to Section 8.0.</p> <p>5.2.2 Spark-ignited Engines Used in non-AO - Table 2 Emission Limits/Standards</p> <p>On and after the compliance schedule specified in Section 7.5, the operator of a spark-ignited engine &gt; 50 bhp that is used in non-AO shall comply with all the applicable requirements of the rule and one of the following, on an engine-by-engine basis:</p> <p>5.2.2.1 On and after the compliance schedule specified in Section 7.5, the operator of a spark-ignited engine that is used exclusively in non-AO shall comply with Sections 5.2.2.1.1 through 5.2.2.1.3 on an engine-by-engine basis:</p> <p>5.2.2.1.1 NO<sub>x</sub>, CO, and VOC emission limits pursuant to Table 2;</p> <p>5.2.2.1.2 SO<sub>x</sub> control requirements of Section 5.7, pursuant to the deadlines specified in Section 7.5; and</p> <p>5.2.2.1.3 Monitoring requirements of Section 5.10, pursuant to the deadlines specified in Section 7.6.</p> <p>5.2.2.2 In lieu of complying with the NO<sub>x</sub> emission limit requirement of Section 5.2.2.1.1, an operator may pay an annual fee to the District, as specified in Section 5.8, pursuant to Section 7.8.</p>	<p>The requirements of Table 1 of both versions of the rule are identical. Table 2 from the non-SIP version found at the end of this document has emissions requirements that are more stringent than the requirements of Table 1 in both versions of the Rule. The standards of the non-SIP version are at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

		<p>5.2.2.2.1 Engines in the fee payment program shall have actual emissions not greater than the applicable limits in Table 1 during the entire time the engine is part of the fee payment program.</p> <p>5.2.2.2.2 Compliance with Section 5.7 and 5.10, pursuant to the deadlines specified in Section 7.5, is also required as part of the fee payment option.</p> <p>5.2.2.3 In lieu of complying with the NO<sub>x</sub>, CO, and VOC limits of Table 2 on an engine-by-engine basis, an operator may elect to implement an alternative emission control plan pursuant to Section 8.0. An operator electing this option shall not be eligible to participate in the fee payment option outlined in Section 5.2.2.2 and Section 5.6.</p> <p>5.2.3 Spark-Ignited Engines Used Exclusively in Agricultural Operations (AO)</p> <p>5.2.3.1 The operator of a spark-ignited internal combustion engine rated at &gt;50 bhp that is used exclusively in AO shall not operate it in such a manner that results in emissions exceeding the limits in Table 3 for the appropriate engine type on an engine-by-engine basis.</p> <p>5.2.3.2 In lieu of complying with the NO<sub>x</sub>, CO, and VOC limits of Table 3 on an engine-by-engine basis, an operator may elect to implement an alternative emission control plan pursuant to Section 8.0.</p> <p>5.2.3.3 An operator of an AO spark-ignited engine that is subject to the applicable requirements of Table 3 shall not replace such engine with an engine that emits more emissions of NO<sub>x</sub>, VOC, and CO, on a ppmv basis, (corrected to 15% oxygen on a dry basis) than the engine being replaced.</p>	
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	<p>5.1.2 Compression-ignited Internal Combustion Engine Emission Limits/Standards and Compliance Schedules – The owner of a compression-ignited internal combustion engine shall repower, replace or control the engine to comply with the applicable limits/standards and compliance dates in Table 2 below. The annual hours of operation shall be determined on a calendar year basis. A compression-ignited engine shall comply with the applicable emission limits/standards pursuant to Section 5.1.2 or Section 8.0.</p> <p>5.1.3 On and after June 1, 2006, the owner of an AO rich-burn spark-ignited engine, AO lean-burn spark-ignited engine, or AO compression-ignited engine that is subject to the requirements of Section 5.1 shall not replace such engine with a rich-burn spark-ignited, lean-burn spark-ignited, or compression-ignited engine, respectively, that emits more emissions of NOx, VOC, and CO, on a ppmv basis; (corrected to 15% oxygen on a dry basis) than the engine being replaced.</p> <p>5.1.4 The owner of a non-certified compression-ignited engine, in place on June 1, 2006, shall comply with the Emission Limit/Standard and Compliance Date in Table 2 based on the non-certified compression-ignited engine that was in place on June 1, 2006, unless the owner meets one of the following conditions:</p> <p>5.1.4.1 Replaces the non-certified compression-ignited engine with a non-modified Tier 3 or a non-modified Tier 4 engine after June 1, 2006,</p> <p>5.1.4.2 Controls the non-certified compression-ignited engine after June 1, 2006, to emit emissions less than, or equal to, 80 ppm NOx, 2,000 ppm CO, and 750 ppm VOC. (corrected to 15% oxygen on a dry basis); or</p> <p>5.1.4.3 Replaces the non-certified compression-ignited engine after June 1, 2006, with an engine or other source with emissions less than, or equal to, 80 ppm NOx, 2,000 ppm CO, and 750 ppm VOC (corrected to 15% oxygen on a dry basis).</p>	<p>5.2.4 Certified Compression-Ignited Engines (AO and Non-AO)</p> <p>The operator of a certified compression-ignited engine rated &gt;50 bhp shall comply with the following requirements:</p> <p>5.2.4.1 Repower, replace, or control the engine's emissions to comply with the applicable limits/standards in Table 4 on an engine-by-engine basis by the compliance dates as specified in Table 4.</p> <p>5.2.4.2 The annual hours of operation shall be determined on a calendar year basis.</p> <p>5.2.4.3 In lieu of complying with the NOx, CO, and VOC limits of Table 4 on an engine-by-engine basis, an operator may elect to implement an alternative emission control plan pursuant to Section 8.0.</p> <p>5.2.4.4 An operator of an AO compression-ignited engine that is subject to the applicable requirements of Table 4 shall not replace such engine with an engine that emits more emissions of NOx, VOC, and CO, on a ppmv basis, (corrected to 15% oxygen on a dry basis) than the engine being replaced.</p> <p>5.2.5 Non-Certified Compression-Ignited Engines (AO and Non-AO) The operator of a non-certified compression-ignited engine, in place on or before June 1, 2006, shall comply with the Emission Limit/Standard and Compliance Date in Table 4 based on the non-certified compression ignited engine that was in place on June 1, 2006, unless the operator meets one of the following conditions:</p> <p>5.2.5.1 Replace the non-certified compression-ignited engine with a nonmodified Tier 3 or a non-modified Tier 4 engine after June 1, 2006;</p> <p>5.2.5.2 Control the non-certified compression-ignited engine after June 1, 2006, to emit emissions less than, or equal to, 80 ppmv NOx, 2,000 ppmv CO, and 750 ppmv VOC (corrected to 15% oxygen on a dry basis); or</p> <p>5.2.5.3 Replace the non-certified compression-ignited engine after June 1, 2006, with an engine or other source with emissions less than, or equal to, 80 ppmv NOx, 2,000 ppmv CO, and 750 ppmv VOC (corrected to 15% oxygen on a dry basis).</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
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	<p>5.2 All continuous emission monitoring systems (CEMS) emissions measurements shall be averaged over a period of 15 consecutive minutes. Any 15-consecutive-minute block average CEMS measurement exceeding the applicable emission limits of this rule shall constitute a violation of this rule.</p> <p>5.3 Percent emission reductions, if used to comply with the NOx emission limits of Section 5.1, shall be calculated as follows:</p> <p>5.3.1 For engines with external control devices that are not operated in combination with a second emission control device or technique, percent reduction shall be calculated using emission samples taken at the inlet and outlet of the control device.</p> <p>5.3.2 For engines without external control devices and for engines with an external control device in combination with a second emission control device or technique, percent reduction shall be based on source test results for the uncontrolled engine and the engine after the control device or technique has been employed. In this situation, the engine's typical operating parameters, loading, and duty cycle shall be documented and repeated at each successive post-control source test to ensure that the engine is meeting the percent reduction limit. When representative source sampling prior to the application of an emissions control technology or technique is not available, the APCO may approve the use of a manufacturer's uncontrolled emissions information or source sampling from a similar, uncontrolled engine.</p> <p>5.4 The owner of an internal combustion engine that uses percent emission reduction to comply with the NOx emission limits of Section 5.1 shall provide an accessible inlet and outlet on the external control device or the engine as appropriate for taking emission samples and as approved by the APCO.</p>	<p>5.3 All continuous emission monitoring systems (CEMS) emissions measurements shall be averaged over a period of 15 consecutive minutes. Any 15-consecutive-minute block average CEMS measurement exceeding the applicable emission limits of this rule shall constitute a violation of this rule.</p> <p>5.4 Percent emission reductions, if used to comply with the NOx emission limits of Section 5.2, shall be calculated as follows:</p> <p>5.4.1 For engines with external control devices that are not operated in combination with a second emission control device or technique, percent reduction shall be calculated using emission samples taken at the inlet and outlet of the control device.</p> <p>5.4.2 For engines without external control devices and for engines with an external control device in combination with a second emission control device or technique, percent reduction shall be based on source test results for the uncontrolled engine and the engine after the control device or technique has been employed. In this situation, the engine's typical operating parameters, loading, and duty cycle shall be documented and repeated at each successive post-control source test to ensure that the engine is meeting the percent reduction limit. When representative source sampling prior to the application of an emissions control technology or technique is not available, the APCO may approve the use of a manufacturer's uncontrolled emissions information or source sampling from a similar, uncontrolled engine.</p> <p>5.5 The operator of an internal combustion engine that uses percent emission reduction to comply with the NOx emission limits of Section 5.2 shall provide an accessible inlet and outlet on the external control device or the engine as appropriate for taking emission samples and as approved by the APCO.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
<p>N/A</p>		<p>5.6 Payment of an Annual Fee in Lieu of Complying with a NOx Emission Limit</p> <p>The operator of a non-AO spark-ignited engine who elects to comply under Section 5.2.2.2 shall comply with the requirements of Sections 5.6 by the schedule specified in Section 7.6 and all other applicable provisions of this rule.</p> <p>5.6.1 An operator shall pay a total annual fee to the District based on the total NOx emissions from those engines that will be subject to Section 5.2.2.2. The annual fee shall be calculated in the following manner:</p> <p>5.6.1.1 The operator shall calculate the total emissions for all engines operating at a stationary source that will comply with Section 5.2.2.2. The total NOx emissions</p>	<p>The annual fee option applies to units subject to Table 2.</p>

shall be calculated in accordance with Section 5.6.1.3.

5.6.1.2 The total annual fee shall be calculated in accordance with Section 5.6.1.4. These calculations include only the units that have been identified to comply with Section 5.2.2.2.

5.6.1.3 Total Emissions (TE) Calculation

$$E(\text{engine}) = A \times B \times C \times D \times 2.147 \times 10^{-16}$$

Where:

E (engine) = Annual NOx emissions for each unit, in tons/year.

A = NOx emission limit for the Permit-to-Operate, in ppmvd corrected to 15% oxygen.

B = Annual fuel use (ft<sup>3</sup>/year)

C = Fuel higher heating value (Btu/ft<sup>3</sup>) – for natural gas use 1,000 Btu/ft<sup>3</sup>

D = Fuel F-Factor at 60°F (Dscf/MMBtu) – for natural gas use 8,578 Dscf/MMBtu

$$TE = \Sigma E(\text{engine})$$

Where:

$\Sigma E(\text{engine})$  = Sum of all NOx emissions from all units in the annual fee program, in tons per year.

5.6.1.4 Total Annual Fee Calculation

$$\text{Total Annual Fee} = (TE \times FR) + \text{Administrative Fee}$$

Where:

TE = Total Emissions, in tons per year, as calculated in Section 5.6.1.3.

FR (Fee Rate) = the cost of NOx reductions, in dollars per ton, as established by District Rule 9510. Under no circumstances shall the cost per ton of NOx reductions exceed the cost effectiveness threshold for the Carl Moyer Cost Effectiveness, as established by the applicable state law.

$$\text{Administrative Fee} = 4\% \times (TE \times FR)$$

	<p>5.5 California Reformulated Gasoline shall be used as the fuel for all gasoline-fired, spark-ignited internal combustion engines.</p>	<p>5.7 Sulfur Oxides (SOx) Emission Control Requirements</p> <p>On and after the compliance schedule specified in Section 7.5, operators of non-AO spark-ignited engines and non-AO compression-ignited engines shall comply with one of the following requirements:</p> <p>5.7.1 Operate the engine exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases; or</p> <p>5.7.2 Limit gaseous fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or</p> <p>5.7.3 Use California Reformulated Gasoline for gasoline-fired spark-ignited engines; or</p> <p>5.7.4 Use California Reformulated Diesel for compression-ignited engines; or</p> <p>5.7.5 Operate the engine on liquid fuel that contains no more than 15 ppm sulfur, as determined by the test method specified in Section 6.4.6; or</p> <p>5.7.6 Install and properly operate an emission control system that reduces SO<sub>2</sub> emissions by at least 95% by weight as determined by the test method specified in Section 6.4.6.</p>	<p>The non-SIP version of this rule contains SOx emissions control requirements not found in the SIP approved version. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
	<p>5.6 Monitoring Requirements A</p> <p>The owner of a non-AO spark-ignited engine subject to the requirements of Section 5.1 or any engine subject to the requirements of Section 8.0 shall comply with the following requirements:</p> <p>5.6.1 For each engine with a rated brake horsepower of 1,000 hp or greater and which is allowed by Permit-to-Operate or Permit-Exempt Equipment Registration condition to operate more than 2,000 hours per calendar year, or with an external emission control device, either install, operate, and maintain continuous monitoring equipment for NO<sub>x</sub>, CO, and oxygen, as identified in Rule 1080 (Stack Monitoring), or install, operate, and maintain APCO-approved alternate monitoring. The monitoring system may be a continuous emissions monitoring system (CEMS), a parametric emissions monitoring system (PEMS), or an alternative monitoring system approved by the APCO. APCO-approved alternate monitoring shall consist of one or more of the following:</p> <p>5.6.1.1 Periodic NO<sub>x</sub> and CO emission concentrations,</p> <p>5.6.1.2 Engine exhaust oxygen concentration,</p> <p>5.6.1.3 Air-to-fuel ratio,</p> <p>5.6.1.4 Flow rate of reducing agents added to engine exhaust,</p> <p>5.6.1.5 Catalyst inlet and exhaust temperature.</p>	<p>5.8 Monitoring Requirements: Non-AO Spark-ignited Engines and Engines in an AECP (Section 8.0)</p> <p>The operator of a non-AO spark-ignited engine subject to the requirements of Section 5.2 or any engine subject to the requirements of Section 8.0 shall comply with the following requirements:</p> <p>5.8.1 For each engine with a rated brake horsepower of 1,000 bhp or greater and which is allowed by Permit-to-Operate or Permit-Exempt Equipment Registration condition to operate more than 2,000 hours per calendar year, or with an external emission control device, either install, operate, and maintain continuous monitoring equipment for NO<sub>x</sub>, CO, and oxygen, as identified in Rule 1080 (Stack Monitoring), or install, operate, and maintain APCO approved alternate monitoring. The monitoring system may be a continuous emissions monitoring system (CEMS), a parametric emissions monitoring system (PEMS), or an alternative monitoring system approved by the APCO. APCO-approved alternate monitoring shall consist of one or more of the following:</p> <p>5.8.1.1 Periodic NO<sub>x</sub> and CO emission concentrations,</p> <p>5.8.1.2 Engine exhaust oxygen concentration,</p> <p>5.8.1.3 Air-to-fuel ratio,</p> <p>5.8.1.4 Flow rate of reducing agents added to engine exhaust.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>5.6.1.6 Catalyst inlet and exhaust oxygen concentration, 5.6.1.7 Other operational characteristics.</p> <p>5.6.2 For each engine not subject to Section 5.6.1, monitor operational characteristics recommended by the engine manufacturer or emission control system supplier, and approved by the APCO.</p> <p>5.6.3 For each engine with an alternative monitoring system, submit to, and receive approval from the APCO, adequate verification of the alternative monitoring system's acceptability. This would include data demonstrating the system's accuracy under typical operating conditions for the specific application and any other information or data deemed necessary in assessing the acceptability of the alternative monitoring system.</p> <p>5.6.4 For each engine with an APCO approved CEMS, operate the CEMS in compliance with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13 (except subsection h), 40 CFR Appendix B (Performance Specifications), 40 CFR Appendix F (Quality Assurance Procedures), and applicable provisions of Rule 1080 (Stack Monitoring).</p> <p>5.6.5 For each engine, have the data gathering and retrieval capabilities of an installed monitoring system described in Section 5.6 approved by the APCO.</p> <p>5.6.6 For each engine, install and operate a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate or Permit-Exempt Equipment Registration condition. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.</p> <p>5.6.7 For each engine, implement the Inspection and Monitoring (I&amp;M) plan, if any, submitted to and approved by the APCO pursuant to Section 8.5.</p> <p>5.6.8 For each engine, collect data through the I&amp;M plan in a form approved by the APCO.</p> <p>5.6.9 For each engine use a portable NOx analyzer to take NOx emission readings to verify compliance with the emission requirements of Section 5.1 or Section 6.0 during each calendar quarter in which a source test is not performed and the engine is operated. All emission readings shall be taken with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate or Permit-Exempt</p>	<p>5.8.1.6 Catalyst inlet and exhaust temperature,</p> <p>5.8.1.6 Catalyst inlet and exhaust oxygen concentration, or 5.8.1.7 Other operational characteristics.</p> <p>5.8.2 For each engine not subject to Section 5.8.1, monitor operational characteristics recommended by the engine manufacturer or emission control system supplier, and approved by the APCO.</p> <p>5.8.3 For each engine with an alternative monitoring system, submit to, and receive approval from the APCO, adequate verification of the alternative monitoring system's acceptability. This would include data demonstrating the system's accuracy under typical operating conditions for the specific application and any other information or data deemed necessary in assessing the acceptability of the alternative monitoring system.</p> <p>5.8.4 For each engine with an APCO approved CEMS, operate the CEMS in compliance with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13 (except subsection h), 40 CFR Appendix B (Performance Specifications), 40 CFR Appendix F (Quality Assurance Procedures), and applicable provisions of Rule 1080 (Stack Monitoring).</p> <p>5.8.5 For each engine, have the data gathering and retrieval capabilities of an installed monitoring system described in Section 5.8 approved by the APCO.</p> <p>5.8.6 For each engine, install and operate a nonresettable elapsed time meter.</p> <p>5.8.6.1 In lieu of installing a nonresettable elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and EPA and is allowed by a Permit-to-Operate or Permit-Exempt Equipment Registration condition.</p> <p>5.8.6.2 The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.</p> <p>5.8.7 For each engine, implement the Inspection and Monitoring (I&amp;M) plan, if any, submitted to and approved by the APCO pursuant to Section 6.5.</p> <p>5.8.8 For each engine, collect data through the I&amp;M plan in a form approved by the APCO.</p> <p>5.8.9 For each engine, use a portable NOx analyzer to take NOx emission readings to verify compliance with the emission requirements of Section 5.2 or Section 8.0 during each calendar quarter in which a</p>	
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<p>Equipment Registration: The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. All NOx emissions readings shall be reported to the APCO in a manner approved by the APCO. NOx emission readings taken pursuant to this section 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.</p> <p>5.6.10 The APCO shall not approve an alternative monitoring system unless it is documented that continued operation within ranges of specified emissions-related performance indicators or operational characteristics provides a reasonable assurance of compliance with applicable emission limits. The operator shall source test over the proposed range of surrogate operating parameters to demonstrate compliance with the applicable emission standards.</p> <p>5.6.11 For each engine subject to Section 8.0, install and operate a nonresettable fuel meter. In lieu of installing a nonresettable fuel meter, the owner may use an alternative device, method, or technique in determining daily fuel consumption provided that the alternative is approved by the APCO. The owner shall properly maintain, operate, and calibrate the required fuel meter in accordance with the manufacturer's instructions.</p>	<p>source test is not performed and the engine is operated.</p> <p>5.8.9.1 If an engine is operated less than 120 calendar days per calendar year, take one NOx emission reading during the calendar year in which a source test is not performed and the engine is operated.</p> <p>5.8.9.2 All emission readings shall be taken with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate or Permit-Exempt Equipment Registration.</p> <p>5.8.9.3 The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO.</p> <p>5.8.9.4 All NOx emissions readings shall be reported to the APCO in a manner approved by the APCO.</p> <p>5.8.9.5 NOx emission readings taken pursuant to this section 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.</p> <p>5.8.10 The APCO shall not approve an alternative monitoring system unless it is documented that continued operation within ranges of specified emissions related performance indicators or operational characteristics provides a reasonable assurance of compliance with applicable emission limits. The operator shall source test over the proposed range of surrogate operating parameters to demonstrate compliance with the applicable emission standards.</p> <p>5.8.11 For each engine subject to Section 8.0, install and operate a nonresettable fuel meter.</p> <p>5.8.11.1 In lieu of installing a nonresettable fuel meter, the operator may use an alternative device, method, or technique in determining daily fuel consumption provided that the alternative is approved by the APCO and EPA.</p> <p>5.8.11.2 The operator shall properly maintain, operate, and calibrate the required fuel meter in accordance with the manufacturer's instructions.</p>	
<p>5.7 Monitoring Requirements B</p> <p>5.7.1 The owner of any of the following engines shall comply with the requirements specified</p>	<p>5.9 Monitoring Requirements: All Other Engines</p> <p>5.9.1 The operator of any of the following engines shall comply with the requirements</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the</p>

	<p>In Section 5.7.2 through Section 5.7.5 below:</p> <p>5.7.1.1 An AO spark-ignited engine subject to the requirements of Section 5.1,</p> <p>5.7.1.2 A compression-ignited engine subject to the requirements of Section 5.1, or</p> <p>5.7.1.3 An engine subject to Section 4.2.</p> <p>5.7.2 Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.</p> <p>5.7.3 Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.</p> <p>5.7.4 Install and operate a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate or Permit-Exempt Equipment Registration condition. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.</p> <p>5.7.5 The owner of an AO spark-ignited engine that has been retro-fitted with a NOx exhaust control that has not been certified in accordance with Section 9.0 Exhaust Control System Certification Requirements, or a compression-ignited engine that has been retro-fitted with a NOx exhaust control shall comply with the following:</p> <p>5.7.5.1 Use a portable NOx analyzer to take NOx emission readings to demonstrate compliance with the emission requirements of Section 5.1.</p> <p>5.7.5.2 The owner of a compression-ignited engine that is subject to the limits/standards of Section 5.1.2 Table 2 Category 1.d shall use a portable NOx analyzer to take NOx emission readings at least once every six months that the engine is operated.</p> <p>5.7.5.3 The owner of any other engine that has been retro-fitted with a NOx exhaust control shall use a portable NOx analyzer to take NOx emission readings at least once every 24 months that the engine is operated.</p> <p>5.7.5.4 All emission readings shall be taken with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate or Permit-Exempt Equipment Registration.</p>	<p>specified in Section 5.9.2 through Section 5.9.5 below:</p> <p>5.9.1.1 An AO spark-ignited engine subject to the requirements of Section 5.2;</p> <p>5.9.1.2 A compression-ignited engine subject to the requirements of Section 5.2; or</p> <p>5.9.1.3 An engine subject to Section 4.2.</p> <p>5.9.2 Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.</p> <p>5.9.3 Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.</p> <p>5.9.4 Install and operate a nonresettable elapsed time meter.</p> <p>5.9.4.1 In lieu of installing a nonresettable elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and EPA and is allowed by a Permit-to-Operate or Permit-Exempt Equipment Registration condition.</p> <p>5.9.4.2 The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.</p> <p>5.9.5 The operator of an AO spark-ignited engine that has been retro-fitted with a NOx exhaust control that has not been certified in accordance with Section 9.0 Exhaust Control System Certification Requirements, or a compression-ignited engine that has been retro-fitted with a NOx exhaust control shall comply with the following:</p> <p>5.9.5.1 Use a portable NOx analyzer to take NOx emission readings to demonstrate compliance with the emission requirements of Section 5.2.</p> <p>5.9.5.2 The operator of a compression-ignited engine that is subject to the limits/standards of Section 5.2 Table 4 Category 1.d shall use a portable NOx analyzer to take NOx emission readings at least once every six (6) months that the engine is operated.</p> <p>5.9.5.3 The operator of any other engine that has been retro-fitted with a NOx exhaust control shall use a portable NOx analyzer to take NOx emission readings at least once every 24 months that the engine is operated.</p> <p>5.9.5.4 All emission readings shall be taken with the engine operating either at</p>	<p>rule is as stringent as the SIP version of the rule.</p>
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	<p>5.7.5.5 The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO.</p> <p>5.7.5.6 All NOx emissions readings shall be reported to the APCO in a manner approved by the APCO.</p> <p>5.7.5.7 NOx emission readings taken pursuant to this section 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.</p>	<p>conditions representative of normal operations or conditions specified in the Permit-to-Operate or Permit-Exempt Equipment Registration.</p> <p>5.9.5.5 The portable NOx analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO.</p> <p>5.9.5.6 All NOx emissions readings shall be reported to the APCO in a manner approved by the APCO.</p> <p>5.9.5.7 NOx emission readings taken pursuant to this section 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.</p>	
		<p>5.10 SOx Emissions Monitoring Requirements On and after the compliance schedule specified in Section 7.5, an operator of a non-AO engine shall comply with the following requirements:</p> <p>5.10.1 An operator of an engine complying with Sections 5.7.2 or 5.7.5 shall perform an annual sulfur fuel analysis in accordance with the test methods in Section 6.4. The operator shall keep the records of the fuel analysis and shall provide it to the District upon request.</p> <p>5.10.2 An operator of an engine complying with Section 5.7.6 by installing and operating a control device with at least 95% by weight SOx reduction efficiency shall submit for approval by the APCO the proposed the key system operating parameters and frequency of the monitoring and recording not later than July 1, 2013, and</p> <p>5.10.3 An operator of an engine complying with Section 5.7.6 shall perform an annual source test unless a more frequent sampling and reporting period is included in the Permit-to-Operate. Source tests shall be performed in accordance with the test methods in Section 6.4.</p>	<p>The non-SIP approved version contains SO<sub>x</sub> emissions monitoring requirements not required in the SIP approved version. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p><b>5.8 Permit-Exempt Equipment Registration Requirements</b></p> <p>The owner of an engine used exclusively in agricultural operations shall register such engine pursuant to Rule 2250 (Permit-Exempt Equipment Registration), except for an engine that meets any one of the following conditions:</p> <p>5.8.1 The engine is required to have a Permit-to-Operate pursuant to California Health and Safety Code Section 42301.16, or</p> <p>5.8.2 The engine is not required to comply with Section 5.1 of this rule.</p>	<p><b>5.11 Permit-Exempt Equipment Registration Requirements</b></p> <p>The operator of an engine used exclusively in agricultural operations shall register such engine pursuant to Rule 2250 (Permit-Exempt Equipment Registration), except for an engine that meets any one of the following conditions:</p> <p>5.11.1 The engine is required to have a Permit-to-Operate pursuant to California Health and Safety Code Section 42301.16; or</p> <p>5.11.2 The engine is not required to comply with Section 5.2 of this rule.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
<p><b>6.0 Administrative Requirements</b></p>	<p><b>6.1 Emission Control Plan</b></p> <p>The owner of an engine subject to the requirements of Section 5.1 or Section 8.0, except for an engine specified in Section 6.1.1, of this rule shall submit to the APCO an APCO-approvable emission control plan of all actions to be taken to satisfy the emission requirements of Section 5.1 and the compliance schedules of Section 7.0.</p> <p>6.1.1 The requirement to submit an emission control plan shall not apply to an engine specified below:</p> <p>6.1.1.1 A certified compression-ignited engine that has not been retro-fitted with an exhaust control and is not subject to the requirements of Section 8.0,</p> <p>6.1.1.2 A certified spark-ignited engine that has not been retro-fitted with an exhaust control and is not subject to the requirements of Section 8.0,</p> <p>6.1.1.3 An AO spark-ignited engine that has not been retro-fitted with a catalytic emission control device and is not subject to the requirements of Section 8.0,</p> <p>6.1.1.4 An engine subject to Section 4.2, or</p> <p>6.1.1.5 An engine subject to Section 4.3.</p> <p>6.1.1.6 An engine with an operating exhaust control system that has been certified in accordance with Section 9.0 Exhaust Control System Certification Requirements.</p> <p>6.1.2 Such emission control plan shall contain the following information, as applicable for each engine:</p> <p>6.1.2.1 Permit-to-Operate number, Authority-to-Construct number, or Permit-Exempt Equipment Registration number</p> <p>6.1.2.2 Engine manufacturer</p> <p>6.1.2.3 Model designation and engine serial</p>	<p><b>6.1 Emission Control Plan</b></p> <p>The operator of an engine subject to the requirements of Section 5.2 of this rule shall submit to the APCO an APCO-approvable emission control plan of all actions to be taken to satisfy the emission requirements of Section 5.2 and the compliance schedules of Section 7.0. If there is no change to the previously-approved emission control plan, the operator shall submit a letter to the District indicating that the previously approved plan is still valid.</p> <p>6.1.1 The requirement to submit an emission control plan shall apply to the following engines:</p> <p>6.1.1.1 Engines that have been retrofitted with an exhaust control device, except those certified per Section 9.0;</p> <p>6.1.1.2 Engines subject to Section 8.0;</p> <p>6.1.1.3 An AO spark-ignited engine that is subject to the requirements of Section 8.0;</p> <p>6.1.1.4 An AO spark-ignited engine that has been retrofitted with a catalytic emission control and is not subject to the requirements of Section 8.0.</p> <p>6.1.2 Such emission control plan shall contain the following information, as applicable for each engine:</p> <p>6.1.2.1 Permit-to-Operate number, Authority-to-Construct number, or Permit-Exempt Equipment Registration number,</p> <p>6.1.2.2 Engine manufacturer,</p> <p>6.1.2.3 Model designation and engine serial number,</p> <p>6.1.2.4 Rated brake horsepower,</p> <p>6.1.2.5 Type of fuel and type of ignition,</p> <p>6.1.2.6 Combustion type: rich-burn or lean-</p>	<p>The non-SIP approved version of this rule includes what engine categories are subject to this section. The SIP approved version has a list of what engines are exempt from this section. However, there is no change in the actual engine categories that are required to meet these section requirements. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

<p>number</p> <p>6.1.2.4 Rated brake horsepower.</p> <p>6.1.2.5 Type of fuel and type of ignition</p> <p>6.1.2.6 Combustion type: rich-burn or lean-burn</p> <p>6.1.2.7 Total hours of operation in the previous one-year period, including typical daily operating schedule</p> <p>6.1.2.8 Fuel consumption (cubic feet for gas or gallons for liquid) for the previous one-year period</p> <p>6.1.2.9 Stack modifications to facilitate continuous in-stack monitoring and to facilitate source testing</p> <p>6.1.2.10 Type of control to be applied, including in-stack monitoring specifications</p> <p>6.1.2.11 Applicable emission limits</p> <p>6.1.2.12 Documentation showing existing emissions of NOx, VOC, and CO, and</p> <p>6.1.2.13 Date that the engine will be in full compliance with Rule 4702.</p> <p>6.1.3 The emission control plan shall identify the type of emission control device or technique to be applied to each engine and a construction/removal schedule, or shall provide support documentation sufficient to demonstrate that the engine is in compliance with the emission requirements of this rule.</p> <p>6.1.4 For an engine being permanently removed from service, the emission control plan shall include a letter of intent pursuant to Section 7.2.</p>	<p>burn.</p> <p>6.1.2.7 Total hours of operation in the previous one-year period, including typical daily operating schedule.</p> <p>6.1.2.8 Fuel consumption (cubic feet for gas or gallons for liquid) for the previous one-year period,</p> <p>6.1.2.9 Stack modifications to facilitate continuous in-stack monitoring and to facilitate source testing,</p> <p>6.1.2.10 Type of control to be applied, including in-stack monitoring specifications,</p> <p>6.1.2.11 Applicable emission limits,</p> <p>6.1.2.12 Documentation showing existing emissions of NOx, VOC, and CO, and</p> <p>6.1.2.13 Date that the engine will be in full compliance with this rule.</p> <p>6.1.3 The emission control plan shall identify the type of emission control device or technique to be applied to each engine and a construction/removal schedule, or shall provide support documentation sufficient to demonstrate that the engine is in compliance with the emission requirements of this rule.</p> <p>6.1.4 For an engine being permanently removed from service, the emission control plan shall include a letter of intent pursuant to Section 7.2.</p>	
<p>6.2 Recordkeeping</p> <p>6.2.1 Except for engines subject to Section 4.0, the owner of an engine subject to the requirements of Section 5.1 of this rule shall maintain an engine operating log to demonstrate compliance with this rule. This information shall be retained for a period of at least five years, shall be readily available, and be made available to the APCO upon request. The engine operating log shall include, on a monthly basis, the following information:</p> <p>6.2.1.1 Total hours of operation,</p> <p>6.2.1.2 Type of fuel used,</p> <p>6.2.1.3 Maintenance or modifications performed,</p> <p>6.2.1.4 Monitoring data,</p> <p>6.2.1.5 Compliance source test results, and</p>	<p>6.2 Recordkeeping</p> <p>6.2.1 The operator of an engine subject to the requirements of Section 5.2 of this rule shall maintain an engine operating log to demonstrate compliance with this rule. This information shall be retained for a period of at least five years, shall be readily available, and be made available to the APCO upon request. The engine operating log shall include, on a monthly basis, the following information:</p> <p>6.2.1.1 Total hours of operation,</p> <p>6.2.1.2 Type of fuel used,</p> <p>6.2.1.3 Maintenance or modifications performed,</p> <p>6.2.1.4 Monitoring data,</p> <p>6.2.1.5 Compliance source test results, and</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

<p>6.2.1.6 Any other information necessary to demonstrate compliance with this rule.</p> <p>6.2.1.7 For an engine subject to Section 8.0, the quantity (cubic feet of gas or gallons of liquid) of fuel used on a daily basis.</p> <p>6.2.2 The data collected pursuant to the requirements of Section 6.6 and Section 5.7 shall be maintained for at least five years, shall be readily available, and made available to the APCO upon request.</p> <p>6.2.3 An owner claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following:</p> <p>6.2.3.1 Total hours of operation,</p> <p>6.2.3.2 The type of fuel used,</p> <p>6.2.3.3 The purpose for operating the engine,</p> <p>6.2.3.4 For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and</p> <p>6.2.3.5 Other support documentation necessary to demonstrate claim to the exemption.</p>	<p>6.2.1.6 Any other information necessary to demonstrate compliance with this rule.</p> <p>6.2.1.7 For an engine subject to Section 8.0, the quantity (cubic feet of gas or gallons of liquid) of fuel used on a daily basis.</p> <p>6.2.2 The data collected pursuant to the requirements of Section 5.8 and Section 5.9 shall be maintained for at least five years, shall be readily available, and made available to the APCO upon request.</p> <p>6.2.3 An operator claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following:</p> <p>6.2.3.1 Total hours of operation,</p> <p>6.2.3.2 The type of fuel used,</p> <p>6.2.3.3 The purpose for operating the engine,</p> <p>6.2.3.4 For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and</p> <p>6.2.3.5 Other support documentation necessary to demonstrate claim to the exemption.</p>	
<p>6.3 Compliance Testing</p> <p>The owner of an engine subject to the requirements of Section 5.1 or the requirements of Section 8.0, shall comply with the following requirements, except for an engine specified in Section 6.3.1:</p> <p>6.3.1 The requirements of Section 6.3.2 through Section 6.3.4 shall not apply to any of the following engines:</p> <p>6.3.1.1 A certified compression-ignited engine that has not been retro-fitted with an exhaust control and is not subject to the requirements of Section 8.0.</p> <p>6.3.1.2 A certified spark-ignited engine that has not been retro-fitted with an exhaust control and is not subject to the requirements of Section 8.0.</p> <p>6.3.1.3 An AO spark-ignited engine that has not been retro-fitted with a catalytic emission control device and is not subject to the requirements of Section 8.0.</p> <p>6.3.1.4 An engine subject to Section 4.2.</p> <p>6.3.1.5 An engine subject to Section 4.3.</p> <p>6.3.1.6 An engine with an operating exhaust</p>	<p>6.3 Compliance Testing</p> <p>The operator of an engine subject to the requirements of Section 5.2 or the requirements of Section 8.0 shall comply with the following requirements:</p> <p>6.3.1 The requirements of Section 6.3.2 through Section 6.3.4 shall apply to the following engines:</p> <p>6.3.1.1 Engines that have been retrofitted with an exhaust control device, except those certified per Section 9.0;</p> <p>6.3.1.2 Engines subject to Section 8.0;</p> <p>6.3.1.3 An AO spark-ignited engine that is subject to the requirements of Section 8.0;</p> <p>6.3.1.4 An AO spark-ignited engine that has been retrofitted with a catalytic emission control and is not subject to the requirements of Section 8.0.</p> <p>6.3.2 Demonstrate compliance with applicable limits, ppmv or percent reduction, in accordance with the test methods in Section 6.4, as specified below:</p> <p>6.3.2.1 By the applicable date specified in</p>	<p>The non-SIP approved version of this rule includes what engine categories are subject to this section. The SIP approved version has a list of what engines are exempt from this section. However, there is no change in the actual engine categories that are required to meet this section requirements. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

control system that has been certified in accordance with Section 9.0 Exhaust Control System Certification Requirements.

6.3.2 Demonstrate compliance with applicable limits, ppmv or percent reduction, in accordance with the test methods in Section 6.4, as specified below:

6.3.2.1 By the applicable date specified in Section 5.1.1, Section 5.1.2, Section 7.3, Section 7.4, Section 7.5, or Section 7.6 and at least once every 24 months thereafter, except for an engine subject to Section 6.3.2.2.

6.3.2.2 By the applicable date specified in Section 5.1.1, Section 5.1.2, Section 7.3, Section 7.4, Section 7.5, or Section 7.6 and at least once every 60 months thereafter, for an AO spark-ignited engine that has been retro-fitted with a catalytic emission control device and is not subject to the requirements of Section 8.0.

6.3.2.3 A portable NOx analyzer may be used to show initial compliance with the applicable limits/standards in Section 5.1 for AO spark-ignited engines, provided the criteria specified in Sections 6.3.2.3.1 to 6.3.2.3.5 are met, and a source test is conducted in accordance with Section 6.3.2 within 12 months from the required compliance date.

6.3.2.3.1 A minimum of 15 minutes of runtime must be measured with data recorded at a minimum of 15, evenly spaced time intervals. Compliance is to be determined with the arithmetic average of the oxygen-corrected data.

6.3.2.3.2 The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Analyzer calibration records shall be made available at the District's request.

6.3.2.3.3 The analyzer shall be checked with EPA protocol span gas at the beginning and end of each test day. The results of these checks shall be recorded and copies submitted to the District with each engine test. If the analyzer exhibits more than a 10% deviation from the span check, the instrument must be re-calibrated. Any analysis performed prior to an end-of-day span check failure shall be void.

6.3.2.3.4. The test results of each engine, including span check results, shall be submitted to the District within 30 days of the test date. Test results shall clearly identify the engine tested including owner, location, permit or

Section 5.2, and at least once every 24 months thereafter, except for an engine subject to Section

6.3.2.2 By the applicable date specified in Section 5.2 and at least once every 60 months thereafter, for an AO spark-ignited engine that has been retro-fitted with a catalytic emission control device.

6.3.2.3 A portable NOx analyzer may be used to show initial compliance with the applicable limits/standards in Section 5.2 for AO spark-ignited engines, provided the criteria specified in Sections 6.3.2.3.1 to 6.3.2.3.5 are met, and a source test is conducted in accordance with Section 6.3.2 within 12 months from the required compliance date.

6.3.2.3.1 A minimum of 15 minutes of runtime must be measured with data recorded at a minimum of 15, evenly spaced time intervals. Compliance is to be determined with the arithmetic average of the oxygen-corrected data;

6.3.2.3.2 The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Analyzer calibration records shall be made available at the District's request;

6.3.2.3.3 The analyzer shall be checked with EPA protocol span gas at the beginning and end of each test day. The results of these checks shall be recorded and copies submitted to the District with each engine test. If the analyzer exhibits more than a 10% deviation from the span check, the instrument must be recalibrated. Any analysis performed prior to an end-of-day span check failure shall be void;

6.3.2.3.4 The test results of each engine, including span check results, shall be submitted to the District within 30 days of the test date. Test results shall clearly identify the engine tested including operator, location, permit or registration number, manufacturer, model, and serial number; and

6.3.2.3.5 The analyzer utilized for each check shall be clearly identified in the material submitted with the test results. Identification shall include manufacturer and serial number of the analyzer used, and the last calibration date.

6.3.3 Conduct emissions source testing with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate or Permit-Exempt Equipment Registration. For emissions source testing performed pursuant to Section 6.3.2 for the

	<p>registration number, manufacturer, model, and serial number.</p> <p>6.3.2.3.5. The analyzer utilized for each check shall be clearly identified in the material submitted with the test results. Identification shall include manufacturer and serial number of the analyzer used, and the last calibration date.</p> <p>6.3.3 Conduct emissions source testing with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate or Permit-Exempt Equipment Registration. For emissions source testing performed pursuant to Section 6.3.2 for the purpose of determining compliance with an applicable standard or numerical limitation, the arithmetic average of three (3) 30-consecutive-minute test runs shall apply. If two (2) of three (3) runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC shall be reported as methane. VOC, NOx, and CO concentrations shall be reported in ppmv, corrected to 15 percent oxygen. For engines that comply with a percent reduction limit in Table 1, the percent reduction of NOx emissions shall also be reported.</p> <p>6.3.4 In addition to other information, the source test protocol shall describe which critical parameters will be measured and how the appropriate range for these parameters shall be established. The range for these parameters shall be incorporated into the I&amp;M plan.</p> <p>6.3.5 Engines that are limited by Permit-to-Operate or Permit-Exempt Equipment Registration condition to be fueled exclusively with PUC quality natural gas shall not be subject to the reoccurring source test requirements of Section 6.3.2 for VOC emissions.</p>	<p>purpose of determining compliance with an applicable standard or numerical limitation, the arithmetic average of three (3) 30-consecutive-minute test runs shall apply. If two (2) of three (3) runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC shall be reported as methane. VOC, NOx, and CO concentrations shall be reported in ppmv, corrected to 15 percent oxygen. For engines that comply with a percent reduction limit, the percent reduction of NOx emissions shall also be reported.</p> <p>6.3.4 In addition to other information, the source test protocol shall describe which critical parameters will be measured and how the appropriate range for these parameters shall be established. The range for these parameters shall be incorporated into the I&amp;M plan.</p> <p>6.3.5 Engines that are limited by Permit-to-Operate or Permit-Exempt Equipment Registration condition to be fueled exclusively with PUC quality natural gas shall not be subject to the reoccurring source test requirements of Section 6.3.2 for VOC emissions.</p>	
	<p>6.3.6 Representative Testing</p> <p>For spark-ignited engines, in lieu of compliance with the applicable requirements of Section 6.3.2, compliance with the applicable emission limits in Section 5.1 shall be demonstrated by submittal of annual emission test results, within 30 days of the test date, to the District, from a unit or units that represents a specified group of units, provided all of the following are requirements are satisfied:</p> <p>6.3.6.1 The units are located at the same stationary source;</p> <p>6.3.6.2 The units were produced by the same manufacturer, have the same model number or other manufacturer's designation in common, and have the same rated capacity and operating specifications;</p>	<p>6.3.6 Representative Testing</p> <p>For spark-ignited engines, in lieu of compliance with the applicable requirements of Section 6.3.2, compliance with the applicable emission limits in Section 5.2 shall be demonstrated by submittal of annual emission test results, within 30 days of the test date, to the District, from a unit or units that represents a specified group of units, provided all of the following requirements are satisfied:</p> <p>6.3.6.1 The units are located at the same stationary source;</p> <p>6.3.6.2 The units were produced by the same manufacturer, have the same model number or other manufacturer's designation in common, and have the same rated</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

<p>6.3.6.3 The units are operated and maintained in a similar manner; and</p> <p>6.3.6.4 At least 20% of the total number of units are tested during each annual test cycle.</p> <p>6.3.6.5 The District, based on documentation submitted by the stationary source:</p> <p>6.3.6.5.1 Determines that the margin of compliance for the identical units tested is significant and can be maintained on an on-going basis; or</p> <p>6.3.6.5.2 Determines based on a review of sufficient emissions data that, though the margin of compliance is not substantial, other factors allow for the determination that the variability of emissions for identical tested units is low enough for confidence that the untested unit will be in compliance. These factors may include, but are not limited to, the following:</p> <p>6.3.6.5.2.1 Historical records at the tested unit</p> <p>6.3.6.5.2.2 Fuel characteristics yielding low variability and therefore assurance that emissions will be constant and below allowable levels;</p> <p>6.3.6.5.2.3 Statistical analysis of a robust emissions data set demonstrate sufficiently low variability to convey assurance that the margin of compliance, though small, is reliable.</p> <p>6.3.6.6 Should any of the representative units exceed the required emission limits, or if the District notifies the operator that the criteria in Sections 6.3.6.1 through 6.3.6.5 have not been fulfilled, each of the units in the group shall individually demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested units being in violation of this rule. After compliance with the requirements of Section 6.3.6.6 has been demonstrated, subsequent source testing shall be performed pursuant to Sections 6.3.2 or 6.3.6.</p>	<p>capacity and operating specifications;</p> <p>6.3.6.3 The units are operated and maintained in a similar manner; and</p> <p>6.3.6.4 At least 20% of the total number of units are tested during each annual test cycle.</p> <p>6.3.6.5 The District, based on documentation submitted by the stationary source:</p> <p>6.3.6.5.1 Determines that the margin of compliance for the identical units tested is significant and can be maintained on an on-going basis; or</p> <p>6.3.6.5.2 Determines based on a review of sufficient emissions data that, though the margin of compliance is not substantial, other factors allow for the determination that the variability of emissions for identical tested units is low enough for confidence that the untested unit will be in compliance. These factors may include, but are not limited to, the following:</p> <p>6.3.6.5.2.1 Historical records at the tested unit showing consistent invariant load;</p> <p>6.3.6.5.2.2 Fuel characteristics yielding low variability and therefore assurance that emissions will be constant and below allowable levels;</p> <p>6.3.6.5.2.3 Statistical analysis of a robust emissions data set demonstrating sufficiently low variability to convey assurance that the margin of compliance, though small, is reliable.</p> <p>6.3.6.6 Should any of the representative units exceed the required emission limits, or if the District notifies the operator that the criteria in Sections 6.3.6.1 through 6.3.6.5 have not been fulfilled, each of the units in the group shall individually demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested units being in violation of this rule. After compliance with the requirements of this section has been demonstrated, subsequent source testing shall be performed pursuant to Sections 6.3.2 or 6.3.6.</p>	
<p>6.4 Test Methods</p> <p>Compliance with the requirements of Section 5.0 shall be determined, as required, in accordance with the following test procedures or any other method approved by EPA and the APCO:</p> <p>6.4.1 Oxides of nitrogen - EPA Method 7E, or ARB Method 100.</p> <p>6.4.2 Carbon monoxide - EPA Method 10, or ARB Method 100.</p>	<p>6.4 Test Methods</p> <p>Compliance with the requirements of Section 5.2 shall be determined, as required, in accordance with the following test procedures or any other method approved by EPA and the APCO:</p> <p>6.4.1 Oxides of nitrogen - EPA Method 7E, or ARB Method 100.</p> <p>6.4.2 Carbon monoxide - EPA Method 10, or ARB Method 100.</p>	<p>The Non-SIP approved version of this rule added SO<sub>x</sub> test methods to the SIP approved version of this rule. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>6.4.3 Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.</p> <p>6.4.4 Volatile organic compounds - EPA Method 25A or 25B, or ARB Method 100.</p> <p>6.4.5 Operating horsepower determination - any method approved by EPA and the APCO.</p>	<p>6.4.3 Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.</p> <p>6.4.4 Volatile organic compounds - EPA Method 25A or 25B, or ARB Method 100. Methane and ethane, which are exempt compounds, shall be excluded from the result of the test.</p> <p>6.4.5 Operating horsepower determination - any method approved by EPA and the APCO.</p> <p>6.4.6 SOx Test Methods</p> <p>6.4.6.1 Oxides of sulfur - EPA Method 6C, EPA Method 8, or ARB Method 100.</p> <p>6.4.6.2 Determination of total sulfur as hydrogen sulfide (H<sub>2</sub>S) content - EPA Method 11 or EPA Method 15, as appropriate.</p> <p>6.4.6.3 Sulfur content of liquid fuel - American Society for Testing and Materials (ASTM) D 6920-03 or ASTM D 5453-99.</p> <p>6.4.6.4 The SOx emission control system efficiency shall be determined using the following:</p> <p>% Control Efficiency = <math>\frac{[(\text{CSO}_2, \text{inlet} - \text{CSO}_2, \text{outlet}) / \text{CSO}_2, \text{inlet}] \times 100}{1}</math></p> <p>Where:</p> <p>CSO<sub>2</sub>, inlet = concentration of SOx (expressed as SO<sub>2</sub>) at the inlet side of the SOx emission control system, in lb/Dscf</p> <p>CSO<sub>2</sub>, outlet = concentration of SOx (expressed as SO<sub>2</sub>) at the outlet side of the SOx emission control system, in lb/Dscf</p> <p>6.4.7 The Higher Heating Value (h<sub>h</sub>v) of the fuel shall be determined by one of the following test methods:</p> <p>6.4.7.1 ASTM D 240-02 or ASTM D 3282-88 for liquid hydrocarbon fuels.</p> <p>6.4.7.2 ASTM D 1826-94 or ASTM 1945-96 in conjunction with ASTM D 3588-89 for gaseous fuel.</p>	
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	<p><b>6.5 Inspection and Monitoring (I&amp;M) Plan</b></p> <p>The owner of an engine that is subject to the requirements of Section 5.1 or the requirements of Section 8.0, except for an engine specified in Section 6.5.1, shall submit to the APCO for approval, an I&amp;M plan that specifies all actions to be taken to satisfy the following requirements and the requirements of Section 5.6. The actions to be identified in the I&amp;M plan shall include, but are not limited to, the information specified below:</p> <p>6.5.1 The requirements of Section 6.5.2 through Section 6.5.9 shall not apply to any of the following engines:</p> <p>6.5.1.1 A certified compression-ignited engine that has not been retro-fitted with an exhaust control and is not subject to the requirements of Section 8.0.</p> <p>6.5.1.2 A certified spark-ignited engine that has not been retro-fitted with an exhaust control and is not subject to the requirements of Section 8.0.</p> <p>6.5.1.3 An AO spark-ignited engine that has not been retro-fitted with a catalytic emission control device and is not subject to the requirements of Section 8.0.</p> <p>6.5.1.4 An engine subject to Section 4.2.</p> <p>6.5.1.5 An engine subject to Section 4.3.</p> <p>6.5.1.6 An engine with an operating exhaust control system that has been certified in accordance with Section 9.0 Exhaust Control System Certification Requirements.</p> <p>6.5.2 Procedures requiring the owner or operator to establish ranges for control equipment parameters, engine operating parameters, and engine exhaust oxygen concentrations that source testing has shown result in pollutant concentrations within the rule limits.</p> <p>6.5.3 Procedures for monthly inspections as approved by the APCO. The applicable control equipment parameters and engine operating parameters will be inspected and monitored monthly in conformance with a regular inspection schedule listed in the I&amp;M plan.</p> <p>6.5.4 Procedures for the corrective actions on the noncompliant parameter(s) that the owner or operator will take when an engine is found to be operating outside the acceptable range for control equipment parameters, engine operating parameters, and engine exhaust NOx, CO, VOC, or oxygen concentrations.</p> <p>6.5.5 Procedures for the owner or operator to notify the APCO when an engine is found to be operating outside the acceptable range for control equipment parameters, engine operating parameters, and engine exhaust</p>	<p><b>6.5 Inspection and Monitoring (I&amp;M) Plan</b></p> <p>The operator of an engine that is subject to the requirements of Section 5.2 or the requirements of Section 8.0 shall submit to the APCO for approval, an I&amp;M plan that specifies all actions to be taken to satisfy the following requirements and the requirements of Section 5.8. The actions to be identified in the I&amp;M plan shall include, but are not limited to, the information specified below. If there is no change to the previously approved I&amp;M plan, the operator shall submit a letter to the District indicating that previously approved plan is still valid.</p> <p>6.5.1 The requirements of Section 6.5.2 through Section 6.5.9 shall apply to the following engines:</p> <p>6.5.1.1 Engines that have been retrofitted with an exhaust control device, except those certified per Section 9.0;</p> <p>6.5.1.2 Engines subject to Section 8.0;</p> <p>6.5.1.3 An AO spark-ignited engine that is subject to the requirements of Section 8.0.</p> <p>6.5.1.4 An AO spark-ignited engine that has been retrofitted with a catalytic emission control and is not subject to the requirements of Section 8.0.</p> <p>6.5.2 Procedures requiring the operator to establish ranges for control equipment parameters, engine operating parameters, and engine exhaust oxygen concentrations that source testing has shown result in pollutant concentrations within the rule limits.</p> <p>6.5.3 Procedures for monthly inspections as approved by the APCO. The applicable control equipment parameters and engine operating parameters will be inspected and monitored monthly in conformance with a regular inspection schedule listed in the I&amp;M plan.</p> <p>6.5.4 Procedures for the corrective actions on the noncompliant parameter(s) that the operator will take when an engine is found to be operating outside the acceptable range for control equipment parameters, engine operating parameters, and engine exhaust NOx, CO, VOC, or oxygen concentrations.</p> <p>6.5.5 Procedures for the operator to notify the APCO when an engine is found to be operating outside the acceptable range for control equipment parameters, engine operating parameters, and engine exhaust NOx, CO, VOC, or oxygen concentrations.</p> <p>6.5.6 Procedures for preventive and corrective maintenance performed for the purpose of maintaining an engine in proper operating</p>	<p>The non-SIP approved version of this rule includes what engine categories are subject to this section. The SIP approved version has a list of what engines are exempt from this section. However, there is no change in the actual engine categories that are required to meet these section requirements. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
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	<p>NOx, CO, VOC, or oxygen concentrations.</p> <p>6.5.6 Procedures for preventive and corrective maintenance performed for the purpose of maintaining an engine in proper operating condition.</p> <p>6.5.7 Procedures and a schedule for using a portable NOx analyzer to take NOx emission readings pursuant to Section 5.6.9.</p> <p>6.5.8 Procedures for collecting and recording required data and other information in a form approved by the APCO including, but not limited to, data collected through the I&amp;M plan and the monitoring systems described in Sections 5.8.1 and 5.6.2. Data collected through the I&amp;M plan shall have retrieval capabilities as approved by the APCO.</p> <p>6.5.9 Procedures for revising the I&amp;M plan. The I&amp;M plan shall be updated to reflect any change in operation. The I&amp;M plan shall be updated prior to any planned change in operation. An engine owner that changes significant I&amp;M plan elements must notify the District no later than seven days after the change and must submit an updated I&amp;M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I&amp;M plan shall be recorded in the engine operating log. For new engines and modifications to existing engines, the I&amp;M plan shall be submitted to and approved by the APCO prior to issuance of the Permit-to-Operate or Permit-Exempt Equipment Registration. The owner of an engine may request a change to the I&amp;M plan at any time.</p>	<p>condition.</p> <p>6.5.7 Procedures and a schedule for using a portable NOx analyzer to take NOx emission readings pursuant to Section 5.8.9.</p> <p>6.5.8 Procedures for collecting and recording required data and other information in a form approved by the APCO including, but not limited to, data collected through the I&amp;M plan and the monitoring systems described in Sections 5.8.1 and 5.8.2. Data collected through the I&amp;M plan shall have retrieval capabilities as approved by the APCO.</p> <p>6.5.9 Procedures for revising the I&amp;M plan. The I&amp;M plan shall be updated to reflect any change in operation. The I&amp;M plan shall be updated prior to any planned change in operation. An engine operator that changes significant I&amp;M plan elements must notify the District no later than seven days after the change and must submit an updated I&amp;M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I&amp;M plan shall be recorded in the engine operating log. For new engines and modifications to existing engines, the I&amp;M plan shall be submitted to and approved by the APCO prior to issuance of the Permit-to-Operate or Permit-Exempt Equipment Registration. The operator of an engine may request a change to the I&amp;M plan at any time.</p>	
<p>7.0 Compliance Schedules</p>	<p>7.1 Loss of Exemption</p> <p>The owner of an engine which becomes subject to the emission limits/standards of this rule through loss of exemption shall not operate the subject engine, except as required for obtaining a new or modified Permit-to-Operate or Permit-Exempt Equipment Registration for the engine, until the owner demonstrates that the subject engine is in full compliance with the requirements of this rule.</p>	<p>7.1 Loss of Exemption</p> <p>The operator of an engine which becomes subject to the emission limits/standards of this rule through loss of exemption shall not operate the subject engine, except as required for obtaining a new or modified Permit-to-Operate or Permit-Exempt Equipment Registration for the engine, until the operator demonstrates that the subject engine is in full compliance with the requirements of this rule.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
	<p>7.2 Permanent Removal of an Engine</p> <p>The owner of an engine who elects to permanently remove the engine from service shall comply with all of the following conditions:</p> <p>7.2.1 Comply with all applicable requirements of this rule until the engine is permanently removed from service;</p> <p>7.2.2 Submit a letter to the APCO no later than 14 days before the engine is permanently removed from service, stating the intent to</p>	<p>7.2 Permanent Removal of an Engine</p> <p>The operator of an engine who elects to permanently remove the engine from service shall comply with all of the following conditions:</p> <p>7.2.1 Comply with all applicable requirements of this rule until the engine is permanently removed from service;</p> <p>7.2.2 Submit a letter to the APCO no later than 14 days before the engine is permanently</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>permanently remove the engine from service. The engine removal letter can be submitted with the emission control plan, if any; and</p> <p>7.2.3 Permanently remove the engine from service and officially surrender the Permit-to-Operate or Permit-Exempt Equipment Registration, if any, to the APCO no later than 30 days after the engine is permanently removed from service.</p>	<p>removed from service, stating the intent to permanently remove the engine from service. The engine removal letter can be submitted with the emission control plan, if any; end</p> <p>7.2.3 Permanently remove the engine from service and officially surrender the Permit-to-Operate or Permit-Exempt Equipment Registration, if any, to the APCO no later than 30 days after the engine is permanently removed from</p>	
	<p>7.3 Compliance Schedule for an AO Compression-Ignited Engine</p> <p>7.3.1 Compliance Schedule - Submission of Emission Control Plan, I&amp;M Plan, Permit-Exempt Equipment Registration Application and Authority-to-Construct for an AO Compression-Ignited Engine</p> <p>7.3.1.1 The owner of an engine that is subject to Section 4.2 or Section 4.3 and that is required to submit an Emission Control Plan, an I&amp;M Plan, or an Authority-to-Construct in order to comply with the requirements of Rule 4702, shall submit such document(s) no later than January 1, 2006.</p> <p>7.3.1.2 The owner of an engine that is subject to Section 5.1 and that is required to submit an Authority-to-Construct application in order to comply with the requirements of Rule 4702, shall submit the Authority-to-Construct application, and any required Emission Control Plan or I&amp;M Plan, no later than six months before the engine is required to be in compliance with the requirements of Section 5.1 of Rule 4702.</p> <p>7.3.1.3 The owner of an engine that is subject to Section 5.1 and that is required to submit a Permit-Exempt Equipment Registration application in order to comply with the requirements of Rule 4702, shall submit the Permit-Exempt Equipment Registration application, and any required Emission Control Plan or I&amp;M Plan, no later than three months before the engine is required to be in compliance with the requirements of Section 5.1 of Rule 4702.</p> <p>7.3.2 Compliance Schedule - Monitoring and Recordkeeping for an AO Compression-Ignited Engine Subject to Section 5.1 and Section 5.7</p> <p>On and after June 1, 2006, the owner of an engine that is subject to Section 5.1 and Section 5.7 of Rule 4702 shall be in compliance with the requirements of Section 5.7, Section 6.2.1.1, and Section 6.2.1.2.</p> <p>7.3.3 Compliance Schedule - General for an AO Compression-Ignited Engine</p>	<p>7.3 AO Compression-Ignited Engine</p> <p>7.3.1 The operator of an AO compression-ignited engine that is subject to Section 5.2 and that is required to submit an Authority-to-Construct application in order to comply with the requirements of this rule, shall submit the Authority-to-Construct application, and any required Emission Control Plan or I&amp;M Plan, no later than six months before the engine is required to be in compliance with the requirements of Section 5.2.</p> <p>7.3.2 The operator of an AO compression-ignited engine that is subject to Section 5.2 and that is required to submit a Permit-Exempt Equipment Registration application in order to comply with the requirements of Rule 4702, shall submit the Permit-Exempt Equipment Registration application, and any required Emission Control Plan or I&amp;M Plan, no later than three months before the engine is required to be in compliance with the requirements of Section 5.2.</p> <p>7.3.3 Unless otherwise specified, the operator of an engine that is subject to the requirements of Section 5.2 of Rule 4702 shall be in full compliance with Rule 4702 by the indicated dates in Table 4.</p>	<p>The Non-SIP approved version of this rule only includes current requirements from the SIP approved version. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>7.3.3.1 On and after January 1, 2006, unless otherwise specified, the owner of an engine that is subject to the requirements of Section 4.2 or Section 4.3 of Rule 4702 shall be in full compliance with Rule 4702.</p> <p>7.3.3.2 Unless otherwise specified, the owner of an engine that is subject to the requirements of Section 5.1 of Rule 4702 shall be in full compliance with Rule 4702 by the indicated dates pursuant to Section 5.1.2.</p>		
	<p>7.4 Compliance Schedule for an AO Spark-Ignited Engine</p> <p>7.4.1 Compliance Schedule - Submission of Emission Control Plan, I&amp;M Plan, Permit-Exempt Equipment Registration Application and Authority-to-Construct for an AO Spark-Ignited Engine</p> <p>7.4.1.1 The owner of an engine that is subject to Section 4.2 or Section 4.3 and that is required to submit an Emission Control Plan, an I&amp;M Plan, or an Authority-to-Construct in order to comply with the requirements of Rule 4702, shall submit such document(a) no later than January 1, 2006.</p> <p>7.4.1.2 The owner of an engine that is subject to Section 5.1 and that is required to submit an Authority-to-Construct application in order to comply with the requirements of Rule 4702, shall submit the Authority-to-Construct application, and any required Emission Control Plan or I&amp;M Plan, by June 1, 2006, or six months before the engine is required to be in compliance with the requirements of Section 5.1 of Rule 4702, whichever is later.</p> <p>7.4.1.3 The owner of an engine that is subject to Section 5.1 and that is required to submit a Permit-Exempt Equipment Registration application in order to comply with the requirements of Rule 4702, shall submit the Permit-Exempt Equipment Registration application, and any required Emission Control Plan or I&amp;M Plan by January 1, 2007, or three months before the engine is required to be in compliance with the requirements of Section 5.1 of Rule 4702, whichever is later.</p> <p>7.4.2 Compliance Schedule - Monitoring and Recordkeeping for an AO Spark-Ignited Engine Subject to Section 5.1 and Section 5.7</p> <p>On and after June 1, 2008, the owner of an engine that is subject to Section 5.1 and Section 5.7 of Rule 4702 shall be in compliance with the requirements of Section 5.7.3 through Section</p>		<p>AO spark-ignited engines are required to be in full compliance with this rule by 1/1/10. The requirements from this section of the rule are obsolete and not required on the Non-SIP approved version of the rule. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>5.7.5, Section 6.2.1.1, and Section 6.2.1.2.</p> <p><b>7.4.3 Compliance Schedule - General for an AO Spark-Ignited Engine</b></p> <p>7.4.3.1 On and after June 1, 2006, unless otherwise specified, the owner of an engine that is subject to the requirements of Section 4.2 or Section 4.3 of Rule 4702 shall be in full compliance with Rule 4702.</p> <p>7.4.3.2 Unless otherwise specified, the owner of an engine that is subject to the requirements of Section 5.1 of Rule 4702 shall be in full compliance with Rule 4702 by the indicated dates pursuant to Section 5.1.1.</p>		
	<p><b>7.5 Compliance Schedule for a Non-AO Compression-Ignited Engine</b></p> <p><b>7.5.1 Compliance Schedule - Submission of Emission Control Plan, I&amp;M Plan, and Authority-to-Construct for a Non-AO Compression-Ignited Engine</b></p> <p>7.5.1.1 The owner of an engine that is subject to Section 4.2 or Section 4.3 and that is required to submit an Emission Control Plan, an I&amp;M Plan, or an Authority-to-Construct in order to comply with the requirements of Rule 4702, shall submit such document(s) no later than June 1, 2006.</p> <p>7.5.1.2 The owner of an engine that is subject to Section 5.1 and that is required to submit an Emission Control Plan, an I&amp;M Plan, or an Authority-to-Construct in order to comply with the requirements of Rule 4702, shall submit such document(s) by June 1, 2006 or six months before the engine is required to be in compliance with the requirements of Section 5.1 of Rule 4702, whichever is later.</p> <p><b>7.5.2 Compliance Schedule - General for a Non-AO Compression-Ignited Engine</b></p> <p>7.5.2.1 On and after June 1, 2006, unless otherwise specified, the owner of an engine that is subject to the requirements of Section 4.1, Section 4.2, or Section 4.3 of Rule 4702 shall be in full compliance with Rule 4702.</p> <p>7.5.2.2 Unless otherwise specified, the owner of an engine that is subject to the requirements of Section 5.1 of Rule 4702 shall be in full compliance with Rule 4702 by the indicated dates pursuant to Section 5.1.2.</p> <p>7.5.2.3 The owner of an engine that is subject to the requirements of Section 4.0 or Section 5.0 of Rule 4701 (Internal Combustion Engines - Phase 1) shall no longer be subject to the requirements of Rule 4701 pursuant to the following requirements:</p> <p>7.5.2.3.1 For an engine that is subject to the requirements of Section 4.1, Section 4.2, or</p>	<p><b>7.4 Non-AO Compression-Ignited Engine</b></p> <p>7.4.1 The operator of a non-AO compression-ignited engine that is subject to Section 5.2 and that is required to submit an Emission Control Plan, an I&amp;M Plan, or an Authority-to-Construct in order to comply with rule requirements, shall submit such document(s) no later than six months before the engine is required to be in compliance with the requirements of Section 5.2.</p> <p>7.4.2 Unless otherwise specified, the operator of an engine that is subject to the requirements of Section 5.2 shall be in full compliance with Rule 4702 by the indicated dates in Table 4.</p>	<p>The Non-SIP approved version of this rule only includes current requirements from the SIP approved version. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

<p>Section 4.3 of Rule 4702, the requirements of Rule 4701 shall not apply effective on the date that such engine is required to be in full compliance with Rule 4702, or</p> <p>7.5.2.3.2 For an engine that is subject to the requirements of Section 5.1 of Rule 4702, the requirements of Rule 4701 shall not apply effective on the date that such engine is required to be in full compliance with Rule 4702.</p>		
<p><b>7.6 Compliance Schedule for a Non-AD Spark-Ignited Engine</b></p> <p><b>7.6.1 Compliance Schedule - Submission of Emission Control Plan, i&amp;M Plan, and Authority-to-Construct for a Non-AD Spark-Ignited Engine</b></p> <p>Effective on and after June 18, 2005, the owner of an engine that is required to submit an Emission Control Plan, an i&amp;M Plan, or an Authority-to-Construct in order to comply with the requirements of Rule 4702, shall submit such document(s) no later than six months before the engine is required to be in full compliance with Rule 4702.</p> <p><b>7.6.2 Compliance Schedule - Emission Limits for a Non-AO Spark-Ignited Engine</b></p> <p>The owner of a non-AO spark-ignited engine subject to the requirements of Rule 4702 shall not operate the engine unless the owner demonstrates and maintains the engine in compliance with the applicable requirements of Rule 4702 by the indicated dates below.</p> <p><b>Compliance Schedule 1 - Non-AD Spark-Ignited Engine</b></p> <p>For the purposes of Section 7.6, the total number of non-AO spark-ignited engines at a stationary source on a specified date includes those non-AO spark-ignited engines subject to Rule 4702 pursuant to Section 2.0 and excludes any engines exempt from Rule 4702 pursuant to Section 4.1 on the specified date.</p> <p><b>7.6.3 Compliance Schedule - General for a Non-AO Spark-Ignited Engine</b></p> <p><b>7.6.3.1</b> On and after January 1, 2006, unless otherwise specified, the owner of an engine that is subject to the requirements of Section 4.1 of Rule 4702 shall be in full compliance with Rule 4702.</p>	<p><b>Note:</b> This section refers to Table 5. Table 5 can be found as an attachment to this document.</p> <p><b>7.5 Non-AO Spark-ignited Engine</b></p> <p><b>7.5.1</b> An operator with non-AO spark-ignited engines at a stationary source subject to Table 2 or Section 8.0 emission limits, SOx control requirements of Section 5.7, and the SOx monitoring requirements of Section 5.10 shall comply with the schedule specified in Table 5.</p> <p><b>7.5.2</b> As shown in Table 5, the column labeled:</p> <p><b>7.5.2.1 "Emission Control Plan"</b> identifies the date by which the operator shall submit an emission control plan pursuant to the applicable provisions of Section 6.1. The emission control plan shall identify all the Non-AO spark-ignited engines subject to Table 2 emission limits, SOx control and monitoring requirements. The emission control plan shall identify all the steps to be taken to comply with this rule. If there is no change to the previously approved emission control plan, the operator does not need to submit a new emission control plan. However, the operator shall submit a letter to the District indicating that previously approved plan is still valid.</p> <p><b>7.5.2.2 "Authority to Construct and Inspection and Maintenance Plan"</b> identifies the date by which the operator shall submit an Authority to Construct (if needed) and an Inspection and Monitoring Plan as specified in the applicable provisions of Section 6.5 for each engine subject to Table 2 emission limits, SOx control and monitoring requirements. If there is no change to the previously approved i&amp;M plan, the operator does not need to submit a new i&amp;M Plan. However, the operator shall submit a letter to the District indicating that previously approved i&amp;M plan is still valid.</p> <p><b>7.5.2.3 "Full Compliance"</b> identifies the date by which the operator shall demonstrate that each unit is in compliance with Table 2</p>	<p><b>The Non-SIP approved version of this rule only includes current requirements from the SIP approved version. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</b></p>

	<p>7.6.3.2 Unless otherwise specified, the owner of an engine subject to the requirements of Rule 4702 shall be in full compliance with Rule 4702 by the applicable compliance date pursuant to Section 7.6.2.</p> <p>7.6.3.3 The owner of an engine that is subject to the requirements of Rule 4701 shall no longer be subject to the requirements of Rule 4701 pursuant to the following requirements:</p> <p>7.6.3.3.1 For an engine that is subject to the requirements of Section 4.1 of Rule 4702, the requirements of Rule 4701 shall not apply effective on and after January 1, 2006, or</p> <p>7.6.3.3.2 For an engine that is subject to the requirements of Section 4.2, Section 4.3, or Section 5.1 of Rule 4702, the requirements of Rule 4701 shall not apply effective on the date that such engine is required to be in full compliance with Rule 4702.</p>	<p>emission limits, SOx control and monitoring requirements.</p>	
		<p><b>7.6 Operator of Non-AO Spark-Ignited Engine Who Elects to Pay Fees</b></p> <p>In lieu of complying with Table 2 NOx emission limits, the operator of a non-AO spark-ignited engine who elects to pay annual fees under Section 5.2.2.2 and Section 5.6 shall comply with the following requirements:</p> <p>7.6.1 By the date specified in Table 5, submit an Emission Control Plan which includes the following information:</p> <p>7.6.1.1 Number of engines at a stationary source that will comply under Section 5.2.2.2,</p> <p>7.6.1.2 Location of each engine,</p> <p>7.6.1.3 Engine manufacturer, model designation, engine serial number, and Permit-to-Operate number, and</p> <p>7.6.1.4 Each engine's rated brake horsepower, fuel type, and type of ignition.</p> <p>7.6.2 The total annual fees shall be paid to the District in the following manner:</p> <p>7.6.2.1 Payment shall be paid no later than June 30 of each year, for the emissions of the previous calendar year,</p> <p>7.6.2.2 The first payment is due to the District no later than June 30 of the year in which full compliance is required for the specified percent of engines at a stationary as specified in Table 5 that the operator has opted to pay the annual fees,</p>	<p>This section was added to address a new unit category. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

		<p>7.6.2.3 Should June 30 fall on a day when the District is closed, the payment shall be made by the next District working day after June 30, and</p> <p>7.6.2.4 Payments shall continue annually until the engine either is permanently removed from use in the San Joaquin Valley Air Basin and the Permit-to-Operate is surrendered or the operator demonstrates compliance with the applicable Table 2 emission limits.</p> <p>7.6.2.5 The emissions fee for units that operate for less than the full calendar year before demonstrating compliance under Section 5.2, shall be based on the actual fuel used during the portion of the calendar year prior to demonstrating compliance or removing the unit from operation within the San Joaquin Valley Air Basin.</p>	
<p><b>8.0 Alternative Emission Control Plan (AECp)</b></p>	<p>An owner may comply with the NOx emission requirements of Section 5.1 for a group of engines by meeting the requirements below. An owner that is subject to the requirements below shall also comply with all the applicable requirements of Sections 5.0, 6.0, and 7.0. An engine that is not subject to Section 5.1 is not eligible for inclusion in an AECp.</p> <p>8.1 During any 7 (seven) consecutive calendar day period, the owner shall operate all engines in the AECp to achieve an actual aggregate NOx emission level that is not greater than 90 percent of the NOx emissions that would be obtained by controlling the engines to comply individually with the NOx limits in Section 5.1. The owner shall operate engines in the AECp such that</p> $AE_{Actual} \leq 0.90 (AE_{Limit})$ <p>and shall notify the APCO within 24 hours of a violation of this section.</p> <p>8.1.1 The actual aggregate NOx emissions (<math>AE_{Actual}</math>) is the sum of the actual NOx emissions, over a 7 (seven) consecutive calendar day period, from all engines in the AECp which were actually operated during that period. <math>AE_{Actual}</math> shall be calculated as follows:</p> $AE_{Actual} = \sum_i (EF_i)(F_i)(k_i)$ <p>where:</p> <ul style="list-style-type: none"> <li>i identifies each engine in the AECp.</li> <li><math>EF_i</math> is the NOx emission factor of the engine established pursuant to Section 8.2 and approved by the APCO.</li> <li><math>F_i</math> is the actual total fuel used by the engine during the 7 (seven) consecutive calendar</li> </ul>	<p>An operator may comply with the NOx emission requirements of Section 5.2 for a group of engines by meeting the requirements below. An operator that is subject to the requirements below shall also comply with all the applicable requirements of Sections 5.0, 6.0, and 7.0. Only engines subject to Section 5.2 are eligible for inclusion in an AECp.</p> <p>8.1 During any seven (7) consecutive calendar day period, the operator shall operate all engines in the AECp to achieve an actual aggregate NOx emission level that is not greater than 90 percent of the NOx emissions that would be obtained by controlling the engines to comply individually with the NOx limits in Section 5.2. The operator shall operate engines in the AECp such that</p> $AE_{Actual} \leq 0.90 (AE_{Limit})$ <p>and shall notify the APCO within 24 hours of any violation of this section.</p> <p>8.1.1 The actual aggregate NOx emissions (<math>AE_{Actual}</math>) is the sum of the actual NOx emissions, over a seven (7) consecutive calendar day period, from all engines in the AECp which were actually operated during that period. <math>AE_{Actual}</math> shall be calculated as follows:</p> $AE_{Actual} = \sum_i (EF_i)(F_i)(k_i)$ <p>where:</p> <ul style="list-style-type: none"> <li>i identifies each engine in the AECp.</li> <li><math>EF_i</math> is the NOx emission factor of the engine established pursuant to Section 6.2 and approved by the APCO.</li> <li><math>F_i</math> is the actual total fuel used by the engine during the 7 (seven) consecutive calendar</li> </ul>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>day period.</p> <p><math>k_i</math> is a constant used to convert an engine's fuel use and NOx emission factor to the amount of NOx emitted. <math>k_i</math> is dependent on the engine and the pollutant emitted. Calculation of <math>k_i</math> shall be accomplished using 40 CFR Part 60, Appendix A, Method 19, or an equivalent method approved by EPA, ARB and the APCO.</p> <p>8.1.2 The estimated aggregate NOx emissions limit (<math>AE_{Limit}</math>) is the sum of the NOx emissions, over a 7 (seven) consecutive calendar day period, for the same engines in the AECF which were actually operated during the same period as considered in Section 8.1.1, calculated with the NOx limits of Section 5.1 and the actual fuel usage during that 7 (seven) consecutive calendar day period. <math>AE_{Limit}</math> shall be calculated as follows:</p> $AE_{Limit} = \sum_i (EL_i)(F_i)(k_i)$ <p>where:</p> <p><math>i</math> identifies each engine in the AECF,</p> <p><math>EL_i</math> is the NOx emission limit from Section 5.1 for each engine.</p> <p><math>F_i</math> is the actual total fuel used by the engine during the 7 (seven) consecutive calendar day period.</p> <p><math>k_i</math> is a constant used to convert an engine's fuel use and NOx emission limit to the amount of NOx emitted. <math>k_i</math> is dependent on the engine and the pollutant emitted. Calculation of <math>k_i</math> shall be accomplished using 40 CFR Part 60, Appendix A, Method 19, or an equivalent method approved by EPA, ARB and the APCO.</p> <p>8.1.3 Only engines in the AECF which were operated during the 7 (seven) consecutive calendar day period shall be included in the calculations of <math>AE_{Limit}</math> and <math>AE_{Actual}</math>.</p> <p>8.1.4 The owner shall, at least one time each day the AECF is used, calculate and record the actual aggregate NOx emissions (<math>AE_{Actual}</math>) and the aggregate NOx emission limit (<math>AE_{Limit}</math>) for the preceding 7 (seven) consecutive calendar day period.</p>	<p>day period.</p> <p><math>k_i</math> is a constant used to convert an engine's fuel use and NOx emission factor to the amount of NOx emitted. <math>k_i</math> is dependant on the engine and the pollutant emitted. Calculation of <math>k_i</math> shall be accomplished using 40 CFR Part 60, Appendix A, Method 19, or an equivalent method approved by EPA, ARB and the APCO.</p> <p>8.1.2 The estimated aggregate NOx emissions limit (<math>AE_{Limit}</math>) is the sum of the NOx emissions, over a seven (7) consecutive calendar day period, for the same engines in the AECF which were actually operated during the same period as considered in Section 8.1.1, calculated with the NOx limits of Section 5.2 and the actual fuel usage during that seven (7) consecutive calendar day period. <math>AE_{Limit}</math> shall be calculated as follows:</p> $AE_{Limit} = \sum_i (EL_i)(F_i)(k_i)$ <p>where:</p> <p><math>i</math> identifies each engine in the AECF.</p> <p><math>EL_i</math> = the NOx emission limit from Section 5.2 for each engine.</p> <p><math>F_i</math> = the actual total fuel used by the engine during the seven (7) consecutive calendar day period.</p> <p><math>k_i</math> = a constant used to convert an engine's fuel use and NOx emission limit to the amount of NOx emitted. <math>k_i</math> is dependent on the engine and the pollutant emitted. Calculation of <math>k_i</math> shall be accomplished using 40 CFR Part 60, Appendix A, Method 19, or an equivalent method approved by EPA, ARB and the APCO.</p> <p>8.1.3 Only engines in the AECF which were operated during the seven (7) consecutive calendar day period shall be included in the calculations of <math>AE_{Limit}</math> and <math>AE_{Actual}</math>.</p> <p>8.1.4 The operator shall, at least one time each day the AECF is used, calculate and record the actual aggregate NOx emissions (<math>AE_{Actual}</math>) and the aggregate NOx emission limit (<math>AE_{Limit}</math>) for the preceding seven (7) consecutive calendar day period.</p>	
	<p>8.2 The owner shall establish a NOx emission factor limit for each engine. The established NOx emission factor of an engine shall be no less than the NOx emission factor of the engine from the most recent source test conducted pursuant to Section 6.3 and approved by the APCO. The owner shall not operate an AECF engine in such a manner that NOx emissions exceed the established NOx emission factor of the engine.</p>	<p>8.2 The operator shall establish a NOx emission factor limit for each engine. The established NOx emission factor of an engine shall be no less than the NOx emission factor of the engine from the most recent source test conducted pursuant to Section 6.3 and approved by the APCO. The operator shall not operate an AECF engine in such a manner that NOx emissions exceed the established NOx emission factor of the engine.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

<p>8.3 The owner shall submit the AECF to the APCO at least 18 months before compliance with the emission limits in Section 5.1 is required. The AECF shall:</p> <p>8.3.1 Not be implemented prior to APCO approval.</p> <p>8.3.2 Be enforceable on a daily basis by the District.</p> <p>8.3.3 Contain any information necessary to determine eligibility of the engines for alternative emission control, including, but not limited to:</p> <p>8.3.3.1 A list of engines subject to the AECF. All engines in an AECF shall be under the operational control of a single owner and shall be located at a single stationary source.</p> <p>8.3.3.2 The NOx emission factor established by the engine owner for each engine pursuant to Section 8.2.</p> <p>8.3.3.3 The estimated aggregate NOx emissions calculated according to Section 8.1.2.</p> <p>8.3.4 Present the methodology for determining equivalency of actual NOx emissions under the proposed AECF as compared to the estimated NOx emissions allowed by this rule.</p> <p>8.3.5 Detail the method of recording and verifying daily compliance with the AECF.</p> <p>8.3.6 Demonstrate to the satisfaction of the APCO that the difference between the NOx emission limits of this rule and any lower actual NOx emissions will not be used to increase emissions from the same or another source.</p> <p>8.3.7 Demonstrate that the engines subject to the requirements of Section 5.1 are in compliance with or on an approved schedule for compliance with all applicable District rules.</p>	<p>8.3 The operator shall submit the AECF to the APCO at least 18 months before compliance with the emission limits in section 5.2 is required. The AECF shall:</p> <p>8.3.1 Not be implemented prior to APCO approval.</p> <p>8.3.2 Be enforceable on a daily basis by the District.</p> <p>8.3.3 Contain any information necessary to determine eligibility of the engines for alternative emission control, including, but not limited to:</p> <p>8.3.3.1 A list of engines subject to the AECF. All engines in an AECF shall be under the operational control of a single operator and shall be located at a single stationary source.</p> <p>8.3.3.2 The NOx emission factor established by the engine operator for each engine pursuant to Section 8.2, and</p> <p>8.3.3.3 The estimated aggregate NOx emissions calculated according to Section 8.1.2.</p> <p>8.3.4 Present the methodology for determining equivalency of actual NOx emissions under the proposed AECF as compared to the estimated NOx emissions allowed by this rule.</p> <p>8.3.5 Detail the method of recording and verifying daily compliance with the AECF.</p> <p>8.3.6 Demonstrate to the satisfaction of the APCO that the difference between the NOx emission limits of this rule and any lower actual NOx emissions will not be used to increase emissions from the same or another source.</p> <p>8.3.7 Demonstrate that the engines subject to the requirements of Section 5.2 are in compliance with or on an approved schedule for compliance with all applicable District rules.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
<p>8.4 The owner shall submit an updated or modified AECF for approval by the APCO prior to any of the following:</p> <p>8.4.1 Modification of the engine(s) which would require an Authority-to-Construct.</p> <p>8.4.2 When new or amended rules are adopted which regulate the emissions from the engines.</p> <p>8.4.3 When the NOx emission factor established by the engine owner for an engine pursuant to Section 8.2 is modified.</p>	<p>8.4 The operator shall submit an updated or modified AECF for approval by the APCO prior to any of the following:</p> <p>8.4.1 Modification of the engine(s) which would require an Authority-to-Construct;</p> <p>8.4.2 When new or amended rules are adopted which regulate the emissions from the engines; or</p> <p>8.4.3 When the NOx emission factor established by the engine operator for an engine pursuant to Section 8.2 is modified.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>8.5 In addition to the records kept pursuant to Section 6.2, the owner shall maintain records, on a daily basis, of the parameters needed to demonstrate compliance with the applicable NOx emission limits when operating under the AECF. These records shall be retained for at least five years, shall be readily available, and be made available to the APCO upon request. The records shall include, but are not limited to, the following for each engine unless otherwise indicated:</p> <p>8.5.1 Total hours of operation.</p> <p>8.5.2 Type and quantity (cubic feet of gas or gallons of liquid) of fuel used.</p> <p>8.5.3 The actual NOx emissions limits to be included in the calculation of <math>AE_{Actual}</math> pursuant to Section 8.1.1.</p> <p>8.5.4 The actual aggregate NOx emissions (<math>AE_{Actual}</math>) for all the engines in the AECF calculated pursuant to Section 8.1.1.</p> <p>8.5.5 The estimated NOx emissions limits to be included in the calculation of <math>AE_{Limit}</math> pursuant to Section 8.1.2.</p> <p>8.5.6 The estimated aggregate NOx emissions (<math>AE_{Limit}</math>) for all the engines in the AECF calculated pursuant to Section 8.1.2.</p> <p>8.5.7 The comparison of the actual aggregate NOx emissions (<math>AE_{Actual}</math>) for all the engines in the AECF and 90 percent of the estimated aggregate NOx emissions (<math>AE_{Limit}</math>) for all the engines in the AECF to demonstrate compliance with Section 8.1.</p> <p>8.5.8 Any other parameters needed to demonstrate daily compliance with the applicable NOx emission limits when operating under the AECF.</p>	<p>8.5 In addition to the records kept pursuant to Section 6.2, the operator shall maintain records, on a daily basis, of the parameters needed to demonstrate compliance with the applicable NOx emission limits when operating under the AECF. These records shall be retained for at least five years, shall be readily available, and be made available to the APCO upon request. The records shall include, but are not limited to, the following for each engine unless otherwise indicated:</p> <p>8.5.1 Total hours of operation.</p> <p>8.5.2 Type and quantity (cubic feet of gas or gallons of liquid) of fuel used.</p> <p>8.5.3 The actual NOx emissions limits to be included in the calculation of <math>AE_{Actual}</math> pursuant to Section 8.1.1.</p> <p>8.5.4 The actual aggregate NOx emissions (<math>AE_{Actual}</math>) for all the engines in the AECF calculated pursuant to Section 8.1.1.</p> <p>8.5.5 The estimated NOx emissions limits to be included in the calculation of <math>AE_{Limit}</math> pursuant to Section 8.1.2.</p> <p>8.5.6 The estimated aggregate NOx emissions (<math>AE_{Limit}</math>) for all the engines in the AECF calculated pursuant to Section 8.1.2.</p> <p>8.5.7 The comparison of the actual aggregate NOx emissions (<math>AE_{Actual}</math>) for all the engines in the AECF and 90 percent of the estimated aggregate NOx emissions (<math>AE_{Limit}</math>) for all the engines in the AECF to demonstrate compliance with Section 8.1, and</p> <p>8.5.8 Any other parameters needed to demonstrate daily compliance with the applicable NOx emission limits when operating under the AECF.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
	<p>8.6 For the purpose of determining the quantity of spark-ignited engines in compliance pursuant to Section 7.6, a spark-ignited engine in an AECF shall not be considered to be in compliance until all spark-ignited engines in the AECF that have been designated to meet more stringent NOx emission factors pursuant to Section 6.2 are in compliance with the rule.</p>	<p>8.6 For the purpose of determining the quantity of spark-ignited engines in compliance pursuant to Section 7.5, a spark-ignited engine in an AECF shall not be considered to be in compliance until all spark-ignited engines in the AECF that have been designated to meet more stringent NOx emission factors pursuant to Section 6.2 are in compliance with the rule.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

<p><b>9.0 Exhaust Control System Certification Requirements</b></p>	<p>9.1 To be considered for APCO certification, the manufacturer or operator shall comply with all of the following requirements:</p> <p>9.1.1 Certification shall be based upon the emission source testing results of a specific exhaust control system.</p> <p>9.1.2A source testing protocol shall be submitted in accordance with the provisions of Rule 1081 (Source Sampling) for approval by the APCO prior to conducting the source test. The source testing protocol approved by the APCO shall be strictly adhered to during certification source testing.</p> <p>9.1.3 Source testing shall be conducted over the range of operating parameters for which the unit(s) will be operated.</p> <p>9.1.4 The source testing results shall demonstrate compliance with the emission limits of this rule for each model of exhaust control system(s) to be certified.</p> <p>9.1.5 The source testing procedure and reports shall be prepared by an ARB- approved independent testing laboratory, and shall contain all the elements identified in the APCO-approved source testing protocol.</p> <p>9.1.6 Source testing shall be conducted no more than 90 days prior to the date of submission of request for certification by the APCO.</p> <p>9.1.7 Any additional supporting information required by the APCO to address other performance parameters.</p>	<p>9.1 To be considered for APCO certification, the manufacturer or operator shall comply with all of the following requirements:</p> <p>9.1.1 Certification shall be based upon the emission source testing results of a specific exhaust control system.</p> <p>9.1.2 A source testing protocol shall be submitted in accordance with the provisions of Rule 1081 (Source Sampling) for approval by the APCO prior to conducting the source test. The source testing protocol approved by the APCO shall be strictly adhered to during certification source testing.</p> <p>9.1.3 Source testing shall be conducted over the range of operating parameters for which the unit(s) will be operated.</p> <p>9.1.4 The source testing results shall demonstrate compliance with the emission limits of this rule for each model of exhaust control system(s) to be certified.</p> <p>9.1.5 The source testing procedure and reports shall be prepared by an ARB approved independent testing laboratory, and shall contain all the elements identified in the APCO-approved source testing protocol.</p> <p>9.1.6 Source testing shall be conducted no more than 90 days prior to the date of submission of request for certification by the APCO, and</p> <p>9.1.7 Any additional supporting information required by the APCO to address other performance parameters.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
	<p>9.2 The manufacturer or operator requesting certification shall submit to the APCO the following information:</p> <p>9.2.1 Copies of the source testing results conducted pursuant to the requirements of Section 9.1, and other pertinent technical data to demonstrate compliance with the emission limits of this rule.</p> <p>9.2.2 The applicant shall sign and date the statement attesting to the accuracy of all information in the statement.</p> <p>9.2.3 Name and address of the exhaust control system manufacturer or operator, brand name of the exhaust control unit, model number, and description of model of system(s) being certified.</p>	<p>9.2 The manufacturer or operator requesting certification shall submit to the APCO the following information:</p> <p>9.2.1 Copies of the source testing results conducted pursuant to the requirements of Section 9.1, and other pertinent technical data to demonstrate compliance with the emission limits of this rule.</p> <p>9.2.2 The applicant shall sign and date the statement attesting to the accuracy of all information in the statement, and</p> <p>9.2.3 Name and address of the exhaust control system manufacturer or operator, brand name of the exhaust control unit, model number, and description of model of system(a) being certified.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

	<p>9.3 The APCO will only approve an application for certification to the extent that the requirements of Sections 9.1 through 9.2 are met and the source testing results demonstrate that the emission limits of this rule are met.</p>	<p>9.3 The APCO will only approve an application for certification to the extent that the requirements of Sections 9.1 through 9.2 are met and the source testing results demonstrate that the emission limits of this rule are met.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
	<p>9.4 The APCO-approved certification is valid only for the range of operating parameters and conditions for which certification is issued.</p>	<p>9.4 The APCO-approved certification is valid only for the range of operating parameters and conditions for which certification is issued.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>
	<p>9.5 The APCO shall publish a list of certified exhaust control systems after the certification process is completed.</p>	<p>9.5 The APCO shall publish a list of certified exhaust control systems after the certification process is completed.</p>	<p>There is no change in the requirements of this section. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.</p>

District Rule 4702 was amended (8/18/2011). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule

SIP APPROVED VERSION OF DISTRICT RULE 4702

Table 1 Emission Limits/Standards for a Spark-Ignited Internal Combustion Engine and Emission Limits/Standards and Compliance Schedule for a Spark-Ignited Engine Used Exclusively in Agricultural Operations (corrected to 15% oxygen on a dry basis)

Engine Type	NOx	CO	VOC
<b>1. Rich-Burn</b>			
a. Waste gas fueled	50 ppmv or 90% reduction	2000 ppmv	250 ppmv
b. Cyclic loaded, field gas fueled	50 ppmv	2000 ppmv	250 ppmv
c. All other engines	25 ppmv or 96% reduction	2000 ppmv	250 ppmv
<b>2. Lean-Burn</b>			
a. Two stroke, gaseous fueled, less than 100 horsepower	75 ppmv or 85% reduction	2000 ppmv	750 ppmv
b. All other engines	65 ppmv or 90% reduction	2000 ppmv	750 ppmv
<b>3. Rich-Burn Engine Used Exclusively in Agricultural Operations</b>			
a. Comply by 1/1/2009, or if owner has an agreement to electrify, comply by 1/1/2010	90 ppmv or 80% reduction	2000 ppmv	250 ppmv
<b>4. Lean-Burn Engine Used Exclusively in Agricultural Operations</b>			
a. Comply by 1/1/2009 or if owner has an agreement to electrify comply by 1/1/2010	150 ppmv or 70% reduction	2000 ppmv	750 ppmv
<b>5. Certified Spark-Ignited Engine Used Exclusively in AO and installed on or before June 16, 2005</b>			
a. Comply by 6/1/2006	Meet Certified Spark-Ignited Engine Standard of HC+NOx < 0.6 g/bhp-hr		

SIP APPROVED VERSION OF DISTRICT RULE 4702

Table 2 Emission Limits/Standards and Compliance Schedule for a Compression-Ignited Internal Combustion Engine (corrected to 15% oxygen on a dry basis)

Engine Type	Emission Limit/ Standard	Compliance Date
<b>1. Non-Certified Compression-Ignited Engine</b>		
a. Greater than 50 bhp but not more than 500 bhp	EPA Tier 3 or Tier 4	1/1/2010
b. Greater than 500 bhp but not more than 750 bhp and less than 1000 annual operating hours	EPA Tier 3	1/1/2010
c. Greater than 750 bhp and less than 1000 annual operating hours	EPA Tier 4	7/1/2011
d. Greater than 500 bhp and greater than or equal to 1000 annual operating hours	80 ppm NO <sub>x</sub> , 2,000 ppm CO, 750 ppm VOC	1/1/2008 or, if owner has an agreement to electrify, comply by 1/1/2010
<b>2. Certified Compression-Ignited Engine</b>		
a. EPA Certified Tier 1 or Tier 2 Engine	EPA Tier 4	1/1/2015 or 12 years after installation date, whichever is later
b. EPA Certified Tier 3 or Tier 4 Engine	Meet Certified Compression-Ignited Engine Standard in effect at time of installation	At time of installation

SIP APPROVED VERSION OF DISTRICT RULE 4702

Compliance Schedule 1 - Non-AO Spark-Ignited Engine

Quantity of Non-AO Spark-Ignited Engines to be in Compliance at a Stationary Source	Compliance Date
a. 25% or more of the total number of non-AO spark-ignited engines at a stationary source on June 1, 2005	6/1/05
b. 62.5% or more of the total number of non-AO spark-ignited engines at a stationary source on June 1, 2006	6/1/06
c. 100% of the total number of non-AO spark-ignited engines at a stationary source on June 1, 2007	6/1/07

**NON-SIP APPROVED VERSION OF DISTRICT RULE 4702**

<b>Table 1 Emission Limits/Standards for a Spark-Ignited Internal Combustion Engine rated at &gt; 50 bhp Used Exclusively in Non-AO (All ppmv limits are corrected to 15% oxygen on a dry basis.)</b>			
<b>Engine Type</b>	<b>NOx</b>	<b>CO</b>	<b>VOC</b>
<b>1. Rich-Burn</b>			
a. Waste gas fueled	50 ppmv or 90% reduction	2000 ppmv	250 ppmv
b. Cyclic loaded, field gas fueled	50 ppmv	2000 ppmv	250 ppmv
c. All other engines	25 ppmv or 96% reduction	2000 ppmv	250 ppmv
<b>2. Lean-Burn</b>			
a. Two stroke, gaseous fueled, less than 100 horsepower	75 ppmv or 85% reduction	2000 ppmv	750 ppmv
b. All other engines	65 ppmv or 90% reduction	2000 ppmv	750 ppmv

<b>Table 2 Emission Limits for a Spark-Ignited Internal Combustion Engine Rated at &gt; 50 bhp Used Exclusively in Non-AO (All ppmv limits are corrected to 15% oxygen on a dry basis). Emission Limits are effective according to the compliance schedule specified in Section 7.5.</b>			
<b>Engine Type</b>	<b>NOx (ppmv)</b>	<b>CO (ppmv)</b>	<b>VOC (ppmv)</b>
<b>1. Rich-Burn</b>			
a. Waste Gas Fueled	50	2000	250
b. Cyclic Loaded, Field Gas Fueled	50	2000	250
c. Limited Use	25	2000	250
d. Rich-Burn Engine, not listed above	11	2000	250
<b>2. Lean-Burn Engines</b>			
a. Two-Stroke, Gaseous Fueled, >50 bhp and < 100 bhp	75	2000	750
b. Limited Use	65	2000	750
c. Lean-Burn Engine used for gas compression	65 ppmv or 93% reduction	2000	750
d. Lean-Burn Engine, not listed above	11	2000	750

**NON-SIP APPROVED VERSION OF DISTRICT RULE 4702**

<b>Table 3 Emission Limits/Standards and Compliance Schedule for a Spark-Ignited Internal Combustion Engine &gt; 50 bhp Used Exclusively in AO (All ppmv limits are corrected to 15% oxygen on a dry basis).</b>			
<b>Engine Type</b>	<b>NO<sub>x</sub> Limit</b>	<b>CO Limit</b>	<b>VOC Limit</b>
1. Rich-Burn	90 ppmv or 80% reduction	2000 ppmv	250 ppmv
2. Lean-Burn	150 ppmv or 70% reduction	2000 ppmv	750 ppmv
3. Certified and installed on or before June 16, 2005	Meet a Certified Spark-Ignited Engine Standard of HC + NO <sub>x</sub> < 0.6 g/bhp-hr		

<b>Table 4 Emission Limits/Standards and Compliance Schedule for Compression-Ignited Internal Combustion Engine (corrected to 15% oxygen on a dry basis)</b>		
<b>Engine Type</b>	<b>Emission Limit/Standard</b>	<b>Compliance Date</b>
<b>1. Non-Certified Compression-Ignited Engine Installed on or before June 1, 2006</b>		
a. Greater than 50 bhp but not more than 500 bhp	EPA Tier 3 or Tier 4	1/1/2010
b. Greater than 500 bhp but not more than 750 bhp and less than 1000 annual operating hours	EPA Tier 3	1/1/2010
c. Greater than 750 bhp and less than 1000 annual operating hours	EPA Tier 4	7/1/2011
d. Greater than 500 bhp and greater than or equal to 1000 annual operating hours	80 ppmv NO <sub>x</sub> , 2,000 ppmv CO, 750 ppmv VOC	1/1/2008 or, if owner has an agreement to electrify, comply by 1/1/2010
<b>2. Certified Compression-Ignited Engine</b>		
a. EPA Certified Tier 1 or Tier 2 Engine	EPA Tier 4	1/1/2015 or 12 years after installation date, but not later than 6/1/2018
b. EPA Certified Tier 3 or Tier 4 Engine	Meet Certified Compression-Ignited Engine Standard in effect at time of installation	At time of installation

**NON-SIP APPROVED VERSION OF DISTRICT RULE 4702**

<b>Table 5 Compliance Schedule for Non-AO Spark-Ignited Engines Subject to Table 2 Emission Limits, and SO<sub>x</sub> Control and Monitoring Requirements</b>			
<b>Engines to be in Compliance at a Stationary Source</b>	<b>Emission Control Plan</b>	<b>Authority to Construct and Inspection and Monitoring Plan</b>	<b>Full Compliance</b>
<b>Operator with a single engine at a stationary source</b>			
<b>Single Engine</b>	1/1/12	1/1/13	1/1/14
<b>Operator with at least two engines, but less than 12 engines at a stationary source</b>			
33% or more of the engines subject to Table 2 emission limits as of August 18, 2011	7/1/12	1/1/13	1/1/14
66% or more of the engines subject to Table 2 emission limits as of August 18, 2011	7/1/12	1/1/14	1/1/15
100% of the engines subject to Table 2 emission limits	7/1/12	1/1/15	1/1/16
<b>Operator with at least 12 engines at a stationary source</b>			
25% or more of the engines subject to Table 2 emission limits as of August 18, 2011	7/1/12	1/1/13	1/1/14
50% or more of the engines subject to Table 2 emission limits as of August 18, 2011	7/1/12	1/1/14	1/1/15
75% or more of the engines subject to Table 2 emission limits as of August 18, 2011	7/1/12	1/1/15	1/1/16
100% of the engines subject to Table 2 emission limits	7/1/12	1/1/16	1/1/17