



JUL 16 2013

Mr. Larry Osborne  
Madera Power, LLC  
P. O. Box 305  
Firebaugh, CA 93622-0305

**Re: Notice of Preliminary Decision – Title V Permit Renewal**  
**District Facility # C-799**  
**Project # C-1120436**

Dear Mr. Osborne:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Madera Power, LLC at 11427 Firebaugh Blvd in Madera County, 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Enclosures

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

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

---

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

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

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

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

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Madera Power, LLC at 11427 Firebaugh Blvd in Madera County, California.

The District's analysis of the legal and factual basis for this proposed action, project #C-1120436, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and at any District office. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact the District at (559) 230-6000. Written comments on the proposed initial permit must be submitted by August 19, 2013 to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**

# SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation  
Madera Power, LLC  
C-799

## TABLE OF CONTENTS

---

I.	PROPOSAL .....	1
II.	FACILITY LOCATION .....	1
III.	EQUIPMENT LISTING .....	1
IV.	GENERAL PERMIT TEMPLATE USAGE .....	2
V.	SCOPE OF EPA AND PUBLIC REVIEW .....	2
VI.	FEDERALLY ENFORCEABLE REQUIREMENTS .....	2
VII.	REQUIREMENTS NOT FEDERALLY ENFORCEABLE .....	5
VIII.	PERMIT REQUIREMENTS .....	6
IX.	PERMIT SHIELD .....	11
X.	PERMIT CONDITIONS .....	11
XI.	ATTACHMENTS .....	11
A.	Renewed Title V Operating Permit	
B.	Previous Title V Operating Permit	
C.	Detailed Facility List	

**TITLE V PERMIT RENEWAL EVALUATION**  
**Solid Fuel-Fired Cogeneration Facility**

**Engineer:** Kamaljit Sran  
**Date:** July 5, 2013

**Facility Number:** C-799  
**Facility Name:** Madera Power, LLC  
**Mailing Address:** P.O. Box 305  
Firebaugh, CA 93622-0305

**Contact Name:** Larry Osborne  
**Phone:** (559) 659-4791

**Responsible Official:** Larry Osborne  
**Title:** General Manager

**Project #:** C-1120436  
**Deemed Complete:** March 8, 2012

---

**I. PROPOSAL**

Madera Power, LLC was issued a renewed Title V permit on November 4, 2009. 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 last renewal 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**

Madera Power, LLC is located at 11427 Firebaugh Blvd, in Madera County, CA

**III. EQUIPMENT LISTING**

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

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

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

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

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

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

##### **A. Rules Updated**

- District Rule 2020, Exemptions  
(amended December 19, 2002 ⇒ amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule  
(amended December 19, 2005 ⇒ amended April 21, 2011)
- District Rule 4702, Internal Combustion Engines – Phase 2  
(amended June 16, 2005 ⇒ amended August 18, 2011)

##### **B. Rules Removed**

No rules were removed.

##### **C. Rules Added**

- 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

##### **D. Rules Not Updated**

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)

- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators and Process Heaters (amended May 18, 2006)
- District Rule 4601, Architectural Coatings (amended October 31, 2001)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- District Rule 8011, General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)

- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)
- 40 CFR Part 60, Subpart Da, Standards for Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR Part 82, Subparts B and F, Stratospheric Ozone

## VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

### A. Rules Added (None)

### B. Rules Not Updated

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

Condition 39 of permit unit -0-3 is based on District Rule 4102 and will therefore not be discussed any further.

- District Rule 7012, Hexavalent Chromium - Cooling Towers (as amended December 17, 1992)

Condition 3 of permit unit -4-2 is based on District Rule 7012 and will therefore not be discussed any further

## VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the previous Title V permit or un-amended rules for which the original permit conditions have been revised.

### A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The amendments to this rule do not have any affect on current permit requirements and will therefore not be addressed in this evaluation.

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

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

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

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

### C. District Rule 2520 - Federally Mandated Operating Permits

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable



requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

**D. District Rule 4702 - Internal Combustion Engines – Phase 2**

In the latest amendments to this rule the language in Section 4.2 was amended to consolidate requirements for emergency standby and low-use engines. The language was streamlined for reader clarity. No changes to the existing requirements made to this section. Therefore, amendments to rule do not change requirements of permit unit C-799-10-1 & -11-1.

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

This subpart is applicable to stationary internal combustion engines that are located at major or area sources of HAP emissions, except if the stationary IC engine is being tested at a stationary IC engine test cell/stand. For permit unit C-799-11-1 is a transportable engine and is not stationary; therefore, this subpart is not applicable.

a. 196 HP Diesel Fired IC Engine Driving Emergency Fire Pump (C-799-10-1)

The requirements of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, are applicable to owners and operators of a stationary RICE located at a major or area source of HAP emissions. This facility is not a major source of HAP emissions and is therefore, by definition, and area source of HAP emissions. Therefore, the requirements of this subpart are applicable to this engine.

The subject engine was installed before 2006; therefore, as defined by Section 63.65.90(iii), this engine can be classified as existing stationary RICE. In accordance with Section 63.6595, the emission limitations and operating limits for existing stationary RICE at an area source of HAP emissions do not become applicable until May 1, 2013 for compression ignited engines. However, the requirements of this regulation will be included in this project for future reference.

§63.6603(a), states the owner or operator of an existing emergency stationary RICE located at an area source of HAP emissions must comply with the requirements listed in Table 2(d)(4) & (d)(5).

**Table 2d - Requirements for Existing Stationary RICE Located at Area Sources:**

For each	You must meet the following	During periods
----------	-----------------------------	----------------

	requirements, except during periods of startup	of startup you must
4. Emergency stationary CI RICE and black start stationary CI RICE. <sup>2</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;	N/A
5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. <sup>2</sup>	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	N/A
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	N/A

<sup>2</sup>If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

The following conditions will ensure compliance with the requirements of this section:

Permit units C-799-10-1

- The engine's oil and filter shall be changed every 1,000 hours of operation or every 12 months, whichever comes first. [40 CFR 63.6603/66.6640 Table 2d, Row 1.a]
- The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 1.b]
- The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 1.c]
- The permittee shall keep records of the maintenance conducted on the engine. [40 CFR 63.6655(e)]

§63.6625(f), states the owner or operator of an existing emergency CI stationary RICE located at an area source of HAP emissions must install a non-resettable hour meter if one is not already installed.

Existing condition 2 of the requirements for permit units C-799-10-1 ensure compliance with requirements of this section.

§63.6625(f)(ii), states the owner or operator of an existing emergency CI stationary RICE located at an area source of HAP emissions may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State

or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

Existing condition 5 of the requirements for permit units C-799-10-1 ensure compliance with requirements of this section.

§63.6625(h), states the owner or operator of an existing stationary RICE must minimize the engine's time spent at idle during start and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all time other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

The Table 2d applicable to existing stationary RICE located at area sources of HAP emissions does not specify any startup requirements for emergency engines.

§63.6640(f) applies to emergency stationary RICE. The facility shall operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If the facility does not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

Operation of these engines is restricted by District Rule 4702 to maintenance, testing, and required regulatory purposes, and during emergency situations. Therefore requirement of this section is pre-empted by requirements of District Rule 4702.

The operator must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

**Table 6 to Subpart ZZZZ of Part 63 - Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices**

For each	Complying with the	You must demonstrate continuous
----------	--------------------	---------------------------------

	requirement to	compliance by
9. Existing emergency and black start stationary RICE located at an area source of HAP	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Existing condition 6 of the requirements for permit units C-799-10-1 ensure compliance with requirements of this section.

§63.6655(a) states, the operator must keep the records described belows:

- (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

§63.6655(d) states the operator must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies.

§63.6655(e) states the operator shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the facility operated and maintained the stationoary RICE and after-treatment control device (if any) according to the facility's own maintenance plan if the following stationary RICE are owned or operated:

- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

§63.6655(f) states that an owner or operator of any of an existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner

or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

Existing condition 6 of the requirements for permit units C-799-10-1 ensure compliance with requirements of this section.

## **F. 40 CFR Part 64-CAM**

### **§64.2 – Applicability**

This section requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

CAM applicability and requirements for this facility have been addressed in the last TV permit renewal and operation has not been modified since then.

The following two permit units have been installed since last TV permit renewal. The CAM applicability is being addressed as following.

a. C-799-10-1: Fire Pump

As unit S-799-10-1 does not have add-on controls for any pollutant, therefore CAM is not applicable to this unit.

b. C-799-11-1: Transportable Electrical Generator

As unit S-799-11-1 does not have add-on controls for any pollutant, therefore CAM is not applicable to this unit.

## **IX. PERMIT SHIELD**

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

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

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

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

The applicant is not requesting any permit shields.

**C. Obsolete Permit Shields From Existing Permit Requirements**

The original permits did not contain any permit shields.

**X. PERMIT CONDITIONS**

See Attachment A – Draft Renewed Title V Operating Permit.

**XII. ATTACHMENTS**

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

---

# ATTACHMENT A

Draft Renewed Title V Operating Permits

---

# San Joaquin Valley Air Pollution Control District

FACILITY: C-799-0-3

EXPIRATION DATE: 05/31/2012

## FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1 and Madera County Rule 113] 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 and Madera County Rule 113] 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
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

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.



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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
40. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulations. [40 CFR Part 68] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-799-1-12

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, AND TRANSFER CONVEYORS WITH A DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE

## PERMIT UNIT REQUIREMENTS

1. When designated as a dormant emissions unit, no fuel shall be received in the fuel storage area. [District Rule 2080] Federally Enforceable Through Title V Permit
2. The permittee shall notify the District at least seven calendar days prior to the designation of this permit unit as a dormant emissions unit or an active emissions unit. [District Rule 2080] Federally Enforceable Through Title V Permit
3. When designated as a dormant emissions unit, normal monitoring and recordkeeping shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal monitoring and recordkeeping shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
6. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7, the transportable IC engine listed under permit C-799-8, and the transportable IC engine listed under permit C-799-11, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Visible emissions from baghouse serving the fuel receiving operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule 2201] Federally Enforceable Through Title V Permit
9. Fugitive dust emissions shall be controlled by water sprays, dust suppressants, enclosures, fencing, or other wind barriers. [District Rule 4102]
10. Mobile equipment, except their propulsion motors, shall be subject to all applicable conditions of this permit. [District Rule 4102]
11. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520] Federally Enforceable Through Title V Permit
12. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Records of visible emission checks, emission control system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
14. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
19. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Throughput of fuel shall not exceed 100 tons per hour nor 2,400 tons per day for each of the following emissions points: north reclaimer, south reclaimer, reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, disk screen to inclined conveyor transfer point, transfer conveyor to return conveyor transfer point, inclined conveyor to red conveyor transfer point, disc screen overs conveyor to fuel hog, fuel hog grinder, and fuel hog to hog transfer conveyor. [District NSR Rule]
24. Emissions shall not exceed 0.012 lb PM10/ton for each of the north and south reclaimers. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Emissions shall not exceed 0.005 lb PM10/ton for each of the following emissions points: transfer conveyor to return conveyor transfer point and inclined conveyor to red conveyor transfer point. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Controlled emissions shall not exceed 0.001 lb PM10/ton for each of the following emissions points: reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, and disk screen to inclined conveyor transfer point. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Emissions shall not exceed 0.000046 lb PM10/ton for each of the following emissions points: disc screen overs to fuel hog and fuel hog to hog transfer conveyor. [District Rule 2201]
28. Emission shall not exceed 0.0012 lb PM10/ton for the fuel hog grinder. [District Rule 2201]
29. Emissions of PM10 shall not exceed 110.8 lb PM10/day from the entire operation. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Emissions of PM10 shall not exceed 2.1 lb PM10/day from the baghouse exhaust. [District Rule 2201] 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.

31. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Permittee shall keep daily and annual records of fuel throughput in tons. [District Rule 2201] Federally Enforceable Through Title V Permit
33. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rules 2201 and 1070] 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:** C-799-2-4

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

ASH HANDLING AND DISPOSAL SYSTEM CONSISTING OF PNEUMATIC PIPING, ASH SILO CYCLONE, ASH SILO BAGHOUSE, ASH SILO, ASH BLOWER, ASH ROTARY VALVE, AND ASH CONDITIONER/PUGMILL.

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
3. The storage, handling, and disposal of ash shall be controlled by closed systems, enclosures, covers, water sprays, or wind barriers. [District Rule 4102]
4. Mobile equipment, except their propulsion motors, used in the handling of ash shall be subject to all applicable conditions of this permit. [District Rule 4102]
5. The ash shall be mixed with water to form a wet cake suitable for hauling prior to being loaded into trucks. [District Rule 4102]
6. Any contractor or other person who handles or disposes of ash from this facility shall be subject to all applicable conditions of this permit. [District Rule 4102]
7. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf. [District Rule 4201 and District Rule 4202] Federally Enforceable Through Title V Permit
8. Upon recommencing operation, enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
9. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
10. Upon recommencing operation, dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
11. Records of visible emission checks, dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-3-20

EXPIRATION DATE: 05/31/2012

## EQUIPMENT DESCRIPTION:

28.5 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS

## PERMIT UNIT REQUIREMENTS

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal testing and monitoring shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal testing and monitoring shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7, the transportable IC engine listed under permit C-799-8, and the transportable IC engine listed under permit C-799-11, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO<sub>x</sub>/year, 54,000 lb-SO<sub>x</sub>/year, 83,520 lb-PM<sub>10</sub>/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. {233} The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [CH&SC 42303]
9. The APCO or any authorized representative, upon request, shall have access to inspect any equipment, operation, or method required in this permit, and to sample emissions from the source or require samples to be taken. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The atmospheric fluidized bed (AFB) boiler shall not operate in excess of 348 days per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Natural gas or propane burners shall be used during start-up and for combustor stabilization throughout the chamber prior to the introduction of solid fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Particulate matter concentrations shall not exceed 0.024 grams/dscf. [District Rules 2201, 4201 and 4301] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



13. Expected emissions of combustion contaminants from the fluidized bed boiler, as particulate matter (PM), will not exceed 10 lb/hr, as measured by EPA Method 5. [District Rule 4301] Federally Enforceable Through Title V Permit
14. Ash sample testing for substances not considered to be combustion contaminants using ion chromatography shall be performed at least once every 12 calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
15. A representative sample of ash shall be collected during source testing and analyzed by ion chromatography to determine the percentage of combustion contaminants exiting the stack. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The PM source test result may be adjusted based on the fraction of combustion contaminants from the ash sample test results to determine the hourly combustion contaminant emission rate. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Total PM10 shall not exceed 11.2 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Emissions from this unit shall not exceed any of the following limits: 50 lb-NO2/hr (1,200 lb-NO2/day), 24 lb-ROG/hr (576 lb-ROG/day), 29 lb-SO2/hr (696 lb-SO2/day), 240 lb-PM/day, or 60 lb-CO/hr (1,440 lb-CO/day). [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
19. Ammonia emissions shall not exceed 100 parts per million. [District Rule 2201] Federally Enforceable Through Title V Permit
20. A quarterly report of the daily fuel usage and type shall be submitted to the District by the 30th day of the following month. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Offset creditable fuels are limited to the following: alfalfa straw, almond prunings, apple prunings, apricot prunings, barley straw, bean straw/stalks, cherry prunings, citrus prunings, corn stalks, fig prunings, forest slash/cull, grape prunings, generic orchard prunings, milo sorghum, nectarine prunings, olive prunings, peach prunings, pecan prunings, pistachio prunings, plum prunings, rice straw, wheat straw, walnut prunings, and generic field crops historically open burned in the San Joaquin Valley air basin. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Fuels for the AFB boiler are limited to the following: alfalfa straw, almond prunings, almond shells, apple prunings, apricot prunings, barley straw, bean straw/stalks, cedar bark, cherry pits, cherry prunings, citrus prunings, coffee grounds, corn stalks, cotton gin trash, cotton stalks, ditchbank or canal weeds, fig prunings, forest slash/cull, grape pomace, grape prunings, generic orchard prunings, hog fuel (mill residue), landscape tree trimmings, milo sorghum, nectarine pits, nectarine prunings, olive pits, olive pomace, olive prunings, pallet/bins wood, peach pits, peach prunings, peanut shells, pecan prunings, pecan shells, pistachio prunings, pistachio shells, plum prunings, prune pits, raisin pomace, rice straw, sawdust, tomato pomace, tumbleweeds, turkey (wood) shavings, urban development clearing trees, walnut prunings, walnut shells, wheat straw, unburned fuel, and paper. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Urban wood waste (construction, demolition, and landfill derived wood wastes) is approved as fuel so long as there is less than 1% by weight, of plastic, rubber and other non-wood combustibles (other than dirt or ash). [District Rule 4102]
24. All stack emissions shall be offset with creditable biomass on an annual basis. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Emission offset credits shall be calculated using the following formula:  $EC(y) = \text{Summation}[1/DF(i) \times T(i) \times EF(i)]$ , where  $EC(y)$  = the amount of offset credit available for the year,  $i$  = the  $i$ th load of biomass combusted for the offset year,  $DF(i)$  = the distance factor for the  $i$ th load of biomass,  $T(i)$  = the number of tons of biomass in the  $i$ th load, and  $EF(i)$  = the emission factor for the type of biomass in the  $i$ th load. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The biomass offset Distance Factor shall be 1.2 for sources within a 15-mile radius and 2.0 for sources outside the 15-mile radius. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Open burn emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning shall be obtained from District Policy SSP 2005 "Open Burn Emission Factors." [District Rule 2201] 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. Daily records of biomass consumption shall be maintained which include the type, mass and geographic origin of all creditable biomass received and used. Records shall include certifications that any creditable biomass has historically been openly burned in the San Joaquin Valley air basin. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
29. Monthly records of all fuel consumption (including biomass and all other permitted fuels) shall be kept. Records shall include type, quantity, and higher heating value (HHV) for each fuel used. [District Rule 4352] Federally Enforceable Through Title V Permit
30. Annual records shall be maintained which quantify the total amount of stack emissions and the total amount of offsets claimed from the diversion of creditable biomass from open-burning, and which include calculations demonstrating that the total amount of annual offsets claimed is sufficient to fully offset the annual stack emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Amount of paper used for fuel shall not exceed 50% of the total fuel consumption. [District Rule 4102]
32. No fuel shall be chemically treated, painted, or oil stained. [District Rule 4102]
33. Fuel feed rate shall not exceed a maximum of 460 MMBtu/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Gross power production shall not exceed 32.85 Megawatts. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Steam production shall not exceed 7,256,000 pounds per day at 900 oF and 850 psig. [District Rule 2201] Federally Enforceable Through Title V Permit
36. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year. [District Rule 4102]
37. Fuel testing shall be conducted as follows: one truckload of urban wood waste fuel shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rule 4102]
38. The District shall be contacted and notified of the proposed date of any fuel testing. [District Rule 2201] Federally Enforceable Through Title V Permit
39. In addition to the scheduled annual fuel testing, testing shall also be performed on urban wood waste on-site within 24 hours of any such request of District staff. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Permittee shall provide a toxics emissions test plan and protocol within 120 operating days of restarting facility and will initiate testing within 60 days of ARB and SJVAPCD approval of the protocol. [District Rule 4102]
41. In accordance with the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (amended June 1993), the facility shall be source tested for the following while fired on the maximum proposed mix of urban wood waste: full set of metals, PAHs, dioxins, furans, formaldehyde, acetaldehyde, PCBs and POM. The ratio of urban wood waste to other fuel combusted during the toxics testing will become the maximum ratio allowed for all subsequent combustion, unless otherwise revised under future Authorities to Construct. [District Rule 4102]
42. Urban woodwaste combustion shall cease within 462 days of operation, beginning the date of facility restart, unless an application for Authority to Construct (ATC), based on refined health risk assessment is filed and approved. [District Rule 4102]
43. Records shall be maintained of the number of days of operation since "restart" occurred. [District Rule 4102]
44. The baghouse shall consist of 2,310 bags with a rating of 226,000 acfm. [District Rule 2201] Federally Enforceable Through Title V Permit
45. All modules of the baghouse shall be equipped with a manometer which shall be calibrated on an annual or more frequent basis. [District Rule 2201] Federally Enforceable Through Title V Permit
46. The multiclone shall consist of a 1,500 hp motor with 200-1 1.5 inch collector tubes. [District Rule 2201] 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.

47. The reagent injection system shall consist of a 2,540 cubic foot silo. [District Rule 2201] Federally Enforceable Through Title V Permit
48. The reagent bin for the dry additive injection system shall be under negative pressure whenever reagent is being loaded into the bin. [District Rule 2201] Federally Enforceable Through Title V Permit
49. The ammonia injection system includes 36 nozzles. [District Rule 2201] Federally Enforceable Through Title V Permit
50. The air flow rate and ammonia injection rate shall be monitored continuously and recorded. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Particulate matter emissions in the exhaust gas from this unit shall not exceed 0.03 lb/MMBtu heat input. [40 CFR 60.42Da(a)(1) and (2)] Federally Enforceable Through Title V Permit
52. The opacity of the exhaust gas from this unit shall not exceed 20 percent based on a 6-minute average except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.42Da(b) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
53. Sulfur dioxide (SO<sub>2</sub>) emissions from the biomass unit shall not exceed 1.20 lb/MMBtu heat input. [40 CFR 60.43Da(d)(2)] Federally Enforceable Through Title V Permit
54. Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Madera County Rule 404] Federally Enforceable Through Title V Permit
55. SO<sub>2</sub> emissions shall be calculated based on the arithmetic average of all hourly emissions rates for SO<sub>2</sub> for the 30 successive boiler operating days. [40 CFR 60.48Da(g)] Federally Enforceable Through Title V Permit
56. Except for periods of start-up or shutdown, emissions concentrations in the exhaust from the unit shall not exceed any of the following limits based on a block 24 hour average : 115 ppmv NO<sub>x</sub> at 3% O<sub>2</sub> or 400 ppmv CO at 3% O<sub>2</sub>. [40 CFR 60.44Da(a) and District Rule 4352] Federally Enforceable Through Title V Permit
57. The duration of each shutdown shall not exceed twelve (12) hours except as provided in Section 5.3.4 of District Rule 4352. [District Rule 4352] Federally Enforceable Through Title V Permit
58. Except as provided in Section 5.3.4 of District Rule 4352, the duration of each start-up shall not exceed 96 hours, or 192 hours if curing of the refractory is required after a modification. [District Rule 4352] Federally Enforceable Through Title V Permit
59. When two or more fuels are combusted simultaneously, NO<sub>x</sub> emissions shall not exceed the prorated emissions calculated using the following formula:  $E_n = [86w + 260z]/100$ , where:  $E_n$  is the applicable standard for nitrogen oxides when multiple fuels are combusted simultaneously (ng/J heat input);  $w$  is the percentage of total heat input derived from the combustion of gaseous fuels; and  $z$  is the percentage of total heat input derived from the combustion of solid fuels. [40 CFR 60.44Da(c)] Federally Enforceable Through Title V Permit
60. Applicable emissions standards of 40 CFR part 60 for PM, SO<sub>2</sub>, and NO<sub>x</sub> apply at all times except during the startup, shutdown, or malfunction. [40 CFR 60.48Da(c)] Federally Enforceable Through Title V Permit
61. Continuous Emission Monitoring systems (CEMs) shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR Part 51 Appendix P and 40 CFR Part 60 Appendix B, Performance Specifications 2, 3, and 4, and the Relative Accuracy Test Audit of Appendix F. [District Rules 1080, 2201 and 4352, 40 CFR 49Da(w) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
62. The continuous emissions monitoring systems (CEMs) for NO<sub>x</sub>, SO<sub>2</sub>, and CO and continuous monitoring system for opacity and O<sub>2</sub> concentration shall be calibrated and maintained operational at all times including the periods of startup, shutdown, malfunction, and emergency conditions, except for the CEMs breakdowns, repairs, calibrate checks, and zero and span adjustments. [40 CFR 60.49Da(a), (b), (c), (d), and (e), 40 CFR 64.3 and District Rule 4352] Federally Enforceable Through Title V Permit
63. Hourly emissions for NO<sub>x</sub> (as NO<sub>2</sub>), SO<sub>2</sub>, and CO shall be based on a consecutive three-hour average as determined by the CEM system. [District Rule 1080] 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.

64. The owner or operator shall obtain emission data for at least 18 hours in at least 22 hours out of the 30 successive boiler operating days. If this minimum data cannot be obtained, the operator or owner shall supplement emission data with alternate monitoring system approved by the APCO or methods and procedures described in section 60.47a(h) of 40 CFR 60, Subpart Da. [40CFR 60.49Da(f) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
65. The owner or operator shall use methods and procedures described in 40 CFR 60.47a(i) to conduct monitoring system performance evaluations and calibrate checks under subpart 60.13(c) and (d). Alternate methods and procedures described under section 60.47a(j) may also be used. [40 CFR 60.49Da(i) and (j) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
66. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 64.9] Federally Enforceable Through Title V Permit
67. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
68. Operator shall notify the APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
69. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess occurred. [40 CFR 60.51Da, 40 CFR 64.9 and District Rule 1080] Federally Enforceable Through Title V Permit
70. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR 64.3] Federally Enforceable Through Title V Permit
71. The baghouse shall operate at all times with a minimum differential pressure of 3 inches water column and a maximum differential pressure of 10 inches water column. [40 CFR Part 64.3] Federally Enforceable Through Title V Permit
72. Differential operating pressure shall be monitored and recorded on each day that the combustor operates. [40 CFR 64.3] Federally Enforceable Through Title V Permit
73. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64.7] Federally Enforceable Through Title V Permit
74. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64.7] Federally Enforceable Through Title V Permit
75. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
76. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
77. Source testing for PM10, SOx, NOx, CO, VOC, and ammonia slip shall be performed at least once every 12 calendar months. [District Rule 2201, District Rule 1081, and District Rule 4352] 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.

78. 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
79. Stack gas velocity shall be determined using EPA Method 2. Stack gas oxygen shall be determine using EPA Method 3 or 3A (or ARB Method 100). Stack gas moisture content shall be determined using EPA Method 4. Solid fuel higher heating value (hhv) shall be determined using ASTM Method D 2015 or E 711. [District Rule 4352] Federally Enforceable Through Title V Permit
80. Source testing shall be conducted using the following methods: EPA Method 7E (or CARB Method 100) for NO<sub>x</sub> (ppmv); EPA Method 19 for NO<sub>x</sub> (lb/MMBtu heat input); EPA Method 5 for particulate matter (PM); EPA Method 6/6C or 8 for SO<sub>2</sub>; EPA Method 9 for opacity; EPA method 10 (or CARB method 100) for CO; and EPA Method 18 (or CARB Method 100) for VOC. [District Rule 4352 and 40 CFR 60.50Da] Federally Enforceable Through Title V Permit
81. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
82. The results of each source test and ash sample ion chromatography test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
83. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 40 CFR 60.7 (b) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
84. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520] Federally Enforceable Through Title V Permit
85. Enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
86. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
87. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
88. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District Rule 2201] 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:** C-799-4-3

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

STEAM AND POWER SYSTEM CONSISTING OF: FORCED CIRCULATION BOILER, TURBINE, BOILER FEEDWATER PUMPS, COOLING TOWER AND FANS, CONDENSATE PUMPS, AIR COMPRESSOR SYSTEM, AND OTHER ASSOCIATED EQUIPMENT.

## PERMIT UNIT REQUIREMENTS

---

1. See facility wide permit for requirements applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No compound containing hexavalent chromium shall be added to the cooling tower. [District Rule 7012] Federally Enforceable Through Title V Permit
4. Records shall be maintained which show the composition of all substances added to the cooling tower. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

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

Facility Name: MADERA POWER, LLC

Location: 11427 FIREBAUGH BLVD, P O BOX 305, FIREBAUGH, CA 93622

C-799-4-3 Jun 25 2013 1:53PM - SRANK

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-10-1

EXPIRATION DATE: 05/31/2012

## EQUIPMENT DESCRIPTION:

196 BHP CATERPILLAR MODEL 3208 TIER 0 (NON-CERTIFIED) DIESEL-FIRED EMERGENCY IC ENGINE  
POWERING A FIREWATER PUMP

## 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 an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
3. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ]
4. 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
5. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] 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. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. The engine's oil and filter shall be changed every 1,000 hours of operation or every 12 months, whichever comes first. [40 CFR 63.6603/66.6640 Table 2d, Row 1.a] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 1.b] Federally Enforceable Through Title V Permit
12. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 1.c] Federally Enforceable Through Title V Permit
13. The permittee shall keep records of the maintenance conducted on the engine. [40 CFR 63.6655(e)] 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: C-799-11-1

EXPIRATION DATE: 05/31/2012

## EQUIPMENT DESCRIPTION:

TRANSPORTABLE 286 BHP JOHN DEERE MODEL 6068HF485 TIER 3 CERTIFIED DIESEL-FIRED 4-CYCLE ENGINE POWERING AN ELECTRICAL GENERATOR PROVIDING ELECTRICITY TO VARIOUS EQUIPMENT AT THE PLASTIC SCREENING OPERATIONS LISTED IN PERMIT C-799-6

## PERMIT UNIT REQUIREMENTS

1. Permittee shall provide written notification to the District within 48 hours of operating an engine under this permit (if an engine is located onsite longer than 24 hours). Such notification shall include the date the unit was brought onsite, the manufacturer, model number, maximum rating, and emissions information that documents that the unit meets the emission limits and requirements specified in the permit. [District Rule 1070] Federally Enforceable Through Title V Permit
2. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Any engine utilized by this permit shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Any engine utilized by this permit shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
8. Any engine utilized by this permit shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
9. Each nonroad transportable engine utilized by this permit shall not be operated at one location for more than 12 consecutive months and shall meet all the requirements of a nonroad transportable engine, per CFR Title 40 Part 89. [District Rule 2201 and 13 CCR 2421 and 17 CCR 93116] Federally Enforceable Through Title V Permit
10. Operation of this permit unit shall not exceed 1509 hours per year (this limit is to enforce the zero equivalency threshold for greenhouse gas emission), as determined by an operational nonresettable elapsed operating time meter or other APCO approved alternative. These records shall be updated at least monthly. [District Rules 2201 and 4702 and California Environmental Quality Act] Federally Enforceable Through Title V Permit
11. This engine shall not operate within 600 feet of the facility property line. [District Rule 4102]
12. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Emissions from the IC engine shall not exceed any of the following limits: 2.41 g-NO<sub>x</sub>/bhp-hr, 0.45 g-CO/bhp-hr, or 0.13 g-VOC/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The PM<sub>10</sub> emissions rate from the engine shall not exceed 0.08 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
15. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7, the transportable IC engine listed under permit C-799-8, and the transportable IC engine listed under permit C-799-11, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO<sub>x</sub>/year, 54,000 lb-SO<sub>x</sub>/year, 83,520 lb-PM<sub>10</sub>/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
16. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
17. The permittee shall maintain a permit operating log to demonstrate compliance. The operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
18. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

---

# ATTACHMENT B

Expiring Title V Operating Permits

---

# San Joaquin Valley Air Pollution Control District

FACILITY: C-799-0-2

EXPIRATION DATE: 05/31/2012

## FACILITY-WIDE REQUIREMENTS

---

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1 and Madera County Rule 113] 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 and Madera County Rule 113] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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, 9.13.2.2] 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 the request of an authorized representative of the District, a permittee shall collect, have collected, or allow the APCO 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. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (11/15/01). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101 and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Method requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 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 Part 82, Subpart B. [40 CFR Part 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 SJVUAPCD District Rule 8021, unless specifically exempted under section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and Rule 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8031, unless specifically exempted under section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and Rule 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and Rule 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and Rule 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit

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

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
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 permit shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), 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. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8061 (11/15/01); A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulations. [40 CFR Part 68] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-799-1-15

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, TRANSFER CONVEYORS WITH A DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE, AND FUEL HOG GRINDING SYSTEM

## PERMIT UNIT REQUIREMENTS

---

1. When designated as a dormant emissions unit, no fuel shall be received in the fuel storage area. [District Rule 2080]
2. The permittee shall notify the District at least seven calendar days prior to the designation of this permit unit as a dormant emissions unit or an active emissions unit. [District Rule 2080]
3. When designated as a dormant emissions unit, normal monitoring and recordkeeping shall not be required. [District Rule 2080]
4. Upon recommencing operation of this unit, normal monitoring and recordkeeping shall resume. [District Rule 2080]
5. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
6. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7, the transportable IC engine listed under permit C-799-8, and the transportable IC engine listed under permit C-799-11, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Visible emissions from baghouse serving the fuel receiving operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule 2201] Federally Enforceable Through Title V Permit
9. Fugitive dust emissions shall be controlled by water sprays, dust suppressants, enclosures, fencing, or other wind barriers. [District Rule 4102]
10. Mobile equipment, except their propulsion motors, shall be subject to all applicable conditions of this permit. [District Rule 4102]
11. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520] Federally Enforceable Through Title V Permit
12. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



13. Records of visible emission checks, emission control system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
14. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
19. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Throughput of fuel shall not exceed 100 tons per hour nor 2,400 tons per day for each of the following emissions points: north reclaimer, south reclaimer, reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, disk screen to inclined conveyor transfer point, transfer conveyor to return conveyor transfer point, inclined conveyor to red conveyor transfer point, disc screen overs conveyor to fuel hog, fuel hog grinder, and fuel hog to hog transfer conveyor. [District NSR Rule]
24. Emissions shall not exceed 0.012 lb PM10/ton for each of the north and south reclaimers. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Emissions shall not exceed 0.005 lb PM10/ton for each of the following emissions points: transfer conveyor to return conveyor transfer point and inclined conveyor to red conveyor transfer point. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Controlled emissions shall not exceed 0.001 lb PM10/ton for each of the following emissions points: reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, and disk screen to inclined conveyor transfer point. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Emissions shall not exceed 0.000046 lb PM10/ton for each of the following emissions points: disc screen overs to fuel hog and fuel hog to hog transfer conveyor. [District Rule 2201]
28. Emission shall not exceed 0.0012 lb PM10/ton for the fuel hog grinder. [District Rule 2201]
29. Emissions of PM10 shall not exceed 110.8 lb PM10/day from the entire operation. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Emissions of PM10 shall not exceed 2.1 lb PM10/day from the baghouse exhaust. [District Rule 2201] 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.

31. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Permittee shall keep daily and annual records of fuel throughput in tons. [District Rule 2201] Federally Enforceable Through Title V Permit
33. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rules 2201 and 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-799-2-6

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

ASH HANDLING AND DISPOSAL SYSTEM CONSISTING OF PNEUMATIC PIPING, ASH SILO CYCLONE, ASH SILO BAGHOUSE, ASH SILO, ASH BLOWER, ASH ROTARY VALVE, AND ASH CONDITIONER/PUGMILL

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
3. The storage, handling, and disposal of ash shall be controlled by closed systems, enclosures, covers, water sprays, or wind barriers. [District Rule 4102]
4. Mobile equipment, except their propulsion motors, used in the handling of ash shall be subject to all applicable conditions of this permit. [District Rule 4102]
5. The ash shall be mixed with water to form a wet cake suitable for hauling prior to being loaded into trucks. [District Rule 4102]
6. Any contractor or other person who handles or disposes of ash from this facility shall be subject to all applicable conditions of this permit. [District Rule 4102]
7. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf. [District Rule 4201 and District Rule 4202] Federally Enforceable Through Title V Permit
8. Upon recommencing operation, enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
9. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
10. Upon recommencing operation, dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
11. Records of visible emission checks, dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-799-3-18

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

32.85 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS

## PERMIT UNIT REQUIREMENTS

---

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal testing and monitoring shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal testing and monitoring shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7, the transportable IC engine listed under permit C-799-8, and the transportable IC engine listed under permit C-799-11, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [CH&SC 42303]
9. The APCO or any authorized representative, upon request, shall have access to inspect any equipment, operation, or method required in this permit, and to sample emissions from the source or require samples to be taken. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The atmospheric fluidized bed (AFB) boiler shall not operate in excess of 348 days per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Natural gas or propane burners shall be used during start-up and for combustor stabilization throughout the chamber prior to the introduction of solid fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Particulate matter concentrations shall not exceed 0.024 grains/dscf. [District Rules 2201, 4201 and 4301] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Expected emissions of combustion contaminants from the fluidized bed boiler, as particulate matter (PM), will not exceed 10 lb/hr, as measured by EPA Method 5. [District Rule 4301] Federally Enforceable Through Title V Permit
14. Ash sample testing for substances not considered to be combustion contaminants using ion chromatography shall be performed at least once every 12 calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
15. A representative sample of ash shall be collected during source testing and analyzed by ion chromatography to determine the percentage of combustion contaminants exiting the stack. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The PM source test result may be adjusted based on the fraction of combustion contaminants from the ash sample test results to determine the hourly combustion contaminant emission rate. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Total PM10 shall not exceed 11.2 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Emissions from this unit shall not exceed any of the following limits: 50 lb-NO<sub>2</sub>/hr (1,200 lb-NO<sub>2</sub>/day), 24 lb-ROG/hr (576 lb-ROG/day), 29 lb-SO<sub>2</sub>/hr (696 lb-SO<sub>2</sub>/day), 240 lb-PM/day, or 60 lb-CO/hr (1,440 lb-CO/day). [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
19. Ammonia emissions shall not exceed 100 parts per million. [District Rule 2201] Federally Enforceable Through Title V Permit
20. A quarterly report of the daily fuel usage and type shall be submitted to the District by the 30th day of the following month. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Offset creditable fuels are limited to the following: alfalfa straw, almond prunings, apple prunings, apricot prunings, barley straw, bean straw/stalks, cherry prunings, citrus prunings, corn stalks, fig prunings, forest slash/cull, grape prunings, generic orchard prunings, milo sorghum, nectarine prunings, olive prunings, peach prunings, pecan prunings, pistachio prunings, plum prunings, rice straw, wheat straw, walnut prunings, and generic field crops historically open burned in the San Joaquin Valley air basin. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Fuels for the AFB boiler are limited to the following: alfalfa straw, almond prunings, almond shells, apple prunings, apricot prunings, barley straw, bean straw/stalks, cedar bark, cherry pits, cherry prunings, citrus prunings, coffee grounds, corn stalks, cotton gin trash, cotton stalks, ditchbank or canal weeds, fig prunings, forest slash/cull, grape pomace, grape prunings, generic orchard prunings, hog fuel (mill residue), landscape tree trimmings, milo sorghum, nectarine pits, nectarine prunings, olive pits, olive pomace, olive prunings, pallet/bins wood, peach pits, peach prunings, peanut shells, pecan prunings, pecan shells, pistachio prunings, pistachio shells, plum prunings, prune pits, raisin pomace, rice straw, sawdust, tomato pomace, tumbleweeds, turkey (wood) shavings, urban development clearing trees, walnut prunings, walnut shells, wheat straw, unburned fuel, and paper. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Urban wood waste (construction, demolition, and landfill derived wood wastes) is approved as fuel so long as there is less than 1% by weight, of plastic, rubber and other non-wood combustibles (other than dirt or ash). [District Rule 4102]
24. All stack emissions shall be offset with creditable biomass on an annual basis. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Emission offset credits shall be calculated using the following formula:  $EC(y) = \text{Summation}[1/DF(i) \times T(i) \times EF(i)]$ , where  $EC(y)$  = the amount of offset credit available for the year,  $i$  = the  $i$ th load of biomass combusted for the offset year,  $DF(i)$  = the distance factor for the  $i$ th load of biomass,  $T(i)$  = the number of tons of biomass in the  $i$ th load, and  $EF(i)$  = the emission factor for the type of biomass in the  $i$ th load. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The biomass offset Distance Factor shall be 1.2 for sources within a 15-mile radius and 2.0 for sources outside the 15-mile radius. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Open burn emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning shall be obtained from District Policy SSP 2005 "Open Burn Emission Factors." [District Rule 2201] 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. Daily records of biomass consumption shall be maintained which include the type, mass and geographic origin of all creditable biomass received and used. Records shall include certifications that any creditable biomass has historically been openly burned in the San Joaquin Valley air basin. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
29. Monthly records of all fuel consumption (including biomass and all other permitted fuels) shall be kept. Records shall include type, quantity, and higher heating value (HHV) for each fuel used. [District Rule 4352] Federally Enforceable Through Title V Permit
30. Annual records shall be maintained which quantify the total amount of stack emissions and the total amount of offsets claimed from the diversion of creditable biomass from open-burning, and which include calculations demonstrating that the total amount of annual offsets claimed is sufficient to fully offset the annual stack emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Amount of paper used for fuel shall not exceed 50% of the total fuel consumption. [District Rule 4102]
32. No fuel shall be chemically treated, painted, or oil stained. [District Rule 4102]
33. Fuel feed rate shall not exceed a maximum of 460 MMBtu/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Gross power production shall not exceed 32.85 Megawatts. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Steam production shall not exceed 7,256,000 pounds per day at 900 oF and 850 psig. [District Rule 2201] Federally Enforceable Through Title V Permit
36. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year. [District Rule 4102]
37. Fuel testing shall be conducted as follows: one truckload of urban wood waste fuel shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rule 4102]
38. The District shall be contacted and notified of the proposed date of any fuel testing. [District Rule 2201] Federally Enforceable Through Title V Permit
39. In addition to the scheduled annual fuel testing, testing shall also be performed on urban wood waste on-site within 24 hours of any such request of District staff. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Permittee shall provide a toxics emissions test plan and protocol within 120 operating days of restarting facility and will initiate testing within 60 days of ARB and SJVAPCD approval of the protocol. [District Rule 4102]
41. In accordance with the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (amended June 1993), the facility shall be source tested for the following while fired on the maximum proposed mix of urban wood waste: full set of metals, PAHs, dioxins, furans, formaldehyde, acetaldehyde, PCBs and POM. The ratio of urban wood waste to other fuel combusted during the toxics testing will become the maximum ratio allowed for all subsequent combustion, unless otherwise revised under future Authorities to Construct. [District Rule 4102]
42. Urban woodwaste combustion shall cease within 462 days of operation, beginning the date of facility restart, unless an application for Authority to Construct (ATC), based on refined health risk assessment is filed and approved. [District Rule 4102]
43. Records shall be maintained of the number of days of operation since "restart" occurred. [District Rule 4102]
44. The baghouse shall consist of 2,310 bags with a rating of 226,000 acfm. [District Rule 2201] Federally Enforceable Through Title V Permit
45. All modules of the baghouse shall be equipped with a manometer which shall be calibrated on an annual or more frequent basis. [District Rule 2201] Federally Enforceable Through Title V Permit
46. The multiclone shall consist of a 1,500 hp motor with 200-11.5 inch collector tubes. [District Rule 2201] 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.

47. The reagent injection system shall consist of a 2,540 cubic foot silo. [District Rule 2201] Federally Enforceable Through Title V Permit
48. The reagent bin for the dry additive injection system shall be under negative pressure whenever reagent is being loaded into the bin. [District Rule 2201] Federally Enforceable Through Title V Permit
49. The ammonia injection system includes 36 nozzles. [District Rule 2201] Federally Enforceable Through Title V Permit
50. The air flow rate and ammonia injection rate shall be monitored continuously and recorded. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Particulate matter emissions in the exhaust gas from this unit shall not exceed 0.03 lb/MMBtu heat input. [40 CFR 60.42Da(a)(1) and (2)] Federally Enforceable Through Title V Permit
52. The opacity of the exhaust gas from this unit shall not exceed 20 percent based on a 6-minute average except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.42Da(b) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
53. Sulfur dioxide (SO<sub>2</sub>) emissions from the biomass unit shall not exceed 1.20 lb/MMBtu heat input. [40 CFR 60.43Da(d)(2)] Federally Enforceable Through Title V Permit
54. Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Madera County Rule 404] Federally Enforceable Through Title V Permit
55. SO<sub>2</sub> emissions shall be calculated based on the arithmetic average of all hourly emissions rates for SO<sub>2</sub> for the 30 successive boiler operating days. [40 CFR 60.48Da(g)] Federally Enforceable Through Title V Permit
56. Except for periods of start-up or shutdown, emissions concentrations in the exhaust from the unit shall not exceed any of the following limits based on a block 24 hour average : 115 ppmv NO<sub>x</sub> at 3% O<sub>2</sub> or 400 ppmv CO at 3% O<sub>2</sub>. [40 CFR 60.44Da(a) and District Rule 4352] Federally Enforceable Through Title V Permit
57. The duration of each shutdown shall not exceed twelve (12) hours except as provided in Section 5.3.4 of District Rule 4352. [District Rule 4352] Federally Enforceable Through Title V Permit
58. Except as provided in Section 5.3.4 of District Rule 4352, the duration of each start-up shall not exceed 96 hours, or 192 hours if curing of the refractory is required after a modification. [District Rule 4352] Federally Enforceable Through Title V Permit
59. When two or more fuels are combusted simultaneously, NO<sub>x</sub> emissions shall not exceed the prorated emissions calculated using the following formula:  $E_n = [86w + 260z]/100$ , where:  $E_n$  is the applicable standard for nitrogen oxides when multiple fuels are combusted simultaneously (ng/J heat input);  $w$  is the percentage of total heat input derived from the combustion of gaseous fuels; and  $z$  is the percentage of total heat input derived from the combustion of solid fuels. [40 CFR 60.44Da(c)] Federally Enforceable Through Title V Permit
60. Applicable emissions standards of 40 CFR part 60 for PM, SO<sub>2</sub>, and NO<sub>x</sub> apply at all times except during the startup, shutdown, or malfunction. [40 CFR 60.48Da(c)] Federally Enforceable Through Title V Permit
61. Continuous Emission Monitoring systems (CEMs) shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR Part 51 Appendix P and 40 CFR Part 60 Appendix B, Performance Specifications 2, 3, and 4, and the Relative Accuracy Test Audit of Appendix F. [District Rules 1080, 2201 and 4352, 40 CFR 49Da(w) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
62. The continuous emissions monitoring systems (CEMs) for NO<sub>x</sub>, SO<sub>2</sub>, and CO and continuous monitoring system for opacity and O<sub>2</sub> concentration shall be calibrated and maintained operational at all times including the periods of startup, shutdown, malfunction, and emergency conditions, except for the CEMs breakdowns, repairs, calibrate checks, and zero and span adjustments. [40 CFR 60.49Da(a), (b), (c), (d), and (e), 40 CFR 64.3 and District Rule 4352] Federally Enforceable Through Title V Permit
63. Hourly emissions for NO<sub>x</sub> (as NO<sub>2</sub>), SO<sub>2</sub>, and CO shall be based on a consecutive three-hour average as determined by the CEM system. [District Rule 1080] 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.

64. The owner or operator shall obtain emission data for at least 18 hours in at least 22 hours out of the 30 successive boiler operating days. If this minimum data cannot be obtained, the operator or owner shall supplement emission data with alternate monitoring system approved by the APCO or methods and procedures described in section 60.47a(h) of 40 CFR 60, Subpart Da. [40CFR 60.49Da(f) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
65. The owner or operator shall use methods and procedures described in 40 CFR 60.47a(i) to conduct monitoring system performance evaluations and calibrate checks under subpart 60.13(c) and (d). Alternate methods and procedures described under section 60.47a(j) may also be used. [40 CFR 60.49Da(i) and (j) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
66. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 64.9] Federally Enforceable Through Title V Permit
67. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
68. Operator shall notify the APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
69. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess occurred. [40 CFR 60.51Da, 40 CFR 64.9 and District Rule 1080] Federally Enforceable Through Title V Permit
70. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR 64.3] Federally Enforceable Through Title V Permit
71. The baghouse shall operate at all times with a minimum differential pressure of 3 inches water column and a maximum differential pressure of 10 inches water column. [40 CFR Part 64.3] Federally Enforceable Through Title V Permit
72. Differential operating pressure shall be monitored and recorded on each day that the combustor operates. [40 CFR 64.3] Federally Enforceable Through Title V Permit
73. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64.7] Federally Enforceable Through Title V Permit
74. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64.7] Federally Enforceable Through Title V Permit
75. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
76. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
77. Source testing for PM10, SOx, NOx, CO, VOC, and ammonia slip shall be performed at least once every 12 calendar months. [District Rule 2201, District Rule 1081, and District Rule 4352] 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.



78. 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
79. Stack gas velocity shall be determined using EPA Method 2. Stack gas oxygen shall be determined using EPA Method 3 or 3A (or ARB Method 100). Stack gas moisture content shall be determined using EPA Method 4. Solid fuel higher heating value (hhv) shall be determined using ASTM Method D 2015 or E 711. [District Rule 4352] Federally Enforceable Through Title V Permit
80. Source testing shall be conducted using the following methods: EPA Method 7E (or CARB Method 100) for NO<sub>x</sub> (ppmv); EPA Method 19 for NO<sub>x</sub> (lb/MMBtu heat input); EPA Method 5 for particulate matter (PM); EPA Method 6/6C or 8 for SO<sub>2</sub>; EPA Method 9 for opacity; EPA method 10 (or CARB method 100) for CO; and EPA Method 18 (or CARB Method 100) for VOC. [District Rule 4352 and 40 CFR 60.50Da] Federally Enforceable Through Title V Permit
81. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
82. The results of each source test and ash sample ion chromatography test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
83. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 40 CFR 60.7 (b) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
84. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520] Federally Enforceable Through Title V Permit
85. Enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
86. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
87. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
88. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District Rule 2201] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-799-4-2

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

STEAM AND POWER SYSTEM CONSISTING OF: FORCED CIRCULATION BOILER, TURBINE, BOILER FEEDWATER PUMPS, COOLING TOWER AND FANS, CONDENSATE PUMPS, AIR COMPRESSOR SYSTEM, AND OTHER ASSOCIATED EQUIPMENT.

## PERMIT UNIT REQUIREMENTS

---

1. See facility wide permit for requirements applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No compound containing hexavalent chromium shall be added to the cooling tower. [District Rule 7012] Federally Enforceable Through Title V Permit
4. Records shall be maintained which show the composition of all substances added to the cooling tower. [District Rule 2520, 9.4.1] 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:** C-799-10-0

**EXPIRATION DATE:** 05/31/2012

**EQUIPMENT DESCRIPTION:**

196 BHP CATERPILLAR MODEL 3208 TIER 0 (NON-CERTIFIED) DIESEL-FIRED EMERGENCY IC ENGINE  
POWERING A FIREWATER PUMP

## PERMIT UNIT REQUIREMENTS

---

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
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]
7. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
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]
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]
11. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-11-0

EXPIRATION DATE: 05/31/2012

## EQUIPMENT DESCRIPTION:

TRANSPORTABLE 286 BHP JOHN DEERE MODEL 6068HF485 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE  
POWERING AN ELECTRICAL GENERATOR PROVIDING ELECTRICITY TO VARIOUS EQUIPMENT AT THE PLASTIC  
SCREENING OPERATIONS LISTED IN PERMIT C-799-6

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall provide written notification to the District within 48 hours of operating an engine under this permit (if an engine is located onsite longer than 24 hours). Such notification shall include the date the unit was brought onsite, the manufacturer, model number, maximum rating, and emissions information that documents that the unit meets the emission limits and requirements specified in the permit. [District Rule 1070] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Any engine utilized by this permit shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Any engine utilized by this permit shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
8. Any engine utilized by this permit shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
9. Each nonroad transportable engine utilized by this permit shall not be operated at one location for more than 12 consecutive months and shall meet all the requirements of a nonroad transportable engine, per CFR Title 40 Part 89. [District Rule 2201 and 13 CCR 2421 and 17 CCR 93116] Federally Enforceable Through Title V Permit
10. Operation of this permit unit shall not exceed 1509 hours per year (this limit is to enforce the zero equivalency threshold for greenhouse gas emission), as determined by an operational nonresettable elapsed operating time meter or other APCO approved alternative. These records shall be updated at least monthly. [District Rules 2201 and 4702 and California Environmental Quality Act] Federally Enforceable Through Title V Permit
11. This engine shall not operate within 600 feet of the facility property line. [District Rule 4102]
12. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Emissions from the IC engine shall not exceed any of the following limits: 2.41 g-NO<sub>x</sub>/bhp-hr, 0.45 g-CO/bhp-hr, or 0.13 g-VOC/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The PM<sub>10</sub> emissions rate from the engine shall not exceed 0.08 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
15. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7, the transportable IC engine listed under permit C-799-8, and the transportable IC engine listed under permit C-799-11, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO<sub>x</sub>/year, 54,000 lb-SO<sub>x</sub>/year, 83,520 lb-PM<sub>10</sub>/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
16. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
17. The permittee shall maintain a permit operating log to demonstrate compliance. The operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
18. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District Rule 2201] Federally Enforceable Through Title V Permit
19. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

---

# ATTACHMENT C

## Detailed Facility List

---

<b>Permit#</b>	<b>Equipment Description</b>
C-799-1-15	FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, TRANSFER CONVEYORS WITH A DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE, AND FUEL HOG GRINDING SYSTEM
C-799-2-6	ASH HANDLING AND DISPOSAL SYSTEM CONSISTING OF PNEUMATIC PIPING, ASH SILO CYCLONE, ASH SILO BAGHOUSE, ASH SILO, ASH BLOWER, ASH ROTARY VALVE, AND ASH CONDITIONER/PUGMILL
C-799-3-18	32.85 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS
C-799-4-2	STEAM AND POWER SYSTEM CONSISTING OF: FORCED CIRCULATION BOILER, TURBINE, BOILER FEEDWATER PUMPS, COOLING TOWER AND FANS, CONDENSATE PUMPS, AIR COMPRESSOR SYSTEM, AND OTHER ASSOCIATED EQUIPMENT.
C-799-10-0	196 BHP CATERPILLAR MODEL 3208 TIER 0 (NON-CERTIFIED) DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
C-799-11-0	TRANSPORTABLE 286 BHP JOHN DEERE MODEL 6068HF485 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN ELECTRICAL GENERATOR PROVIDING ELECTRICITY TO VARIOUS EQUIPMENT AT THE PLASTIC SCREENING OPERATIONS LISTED IN PERMIT C-799-6