



NOV 01 2011

Joel Lepoutre  
Thermal Energy Development Partnership L.P.  
14800 W. Schulte Rd.  
Tracy, CA 95304

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # N-1206  
Project # N-1100307**

Dear Mr. Lepoutre:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Thermal Energy Development Partnership L.P. for its biomass power plant located at 14800 W. Schulte Road, Tracy, California.

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

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

**Attachments**

C: John Yoshimura, Permit Services Engineer

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

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

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1990 E. Gettysburg Avenue  
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NOV 01 2011

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

**Re: Notice of Preliminary Decision – Title V Permit Renewal  
District Facility # N-1206  
Project # N-1100307**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Thermal Energy Development Partnership L.P. for its biomass power plant located at 14800 W. Schulte Road, Tracy, California.

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

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

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C: John Yoshimura, Permit Services Engineer

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NOV 01 2011

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

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # N-1206  
Project # N-1100307**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Thermal Energy Development Partnership L.P. for its biomass power plant located at 14800 W. Schulte Road, Tracy, California.

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

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Attachments

C: John Yoshimura, Permit Services Engineer

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

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Thermal Energy Development Partnership L.P. for its biomass power plant located at 14800 W. Schulte Road, Tracy, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1100307, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested by the public, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed renewed permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

# SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation  
Thermal Energy Development Partnership L.P.  
N-1206

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**TITLE V PERMIT RENEWAL EVALUATION**  
**Power Production - Biomass**

**Engineer:** John Yoshimura  
**Date:** 10/11/11

**Facility Number:** N-1026  
**Facility Name:** Thermal Energy Development Partnership LP  
**Mailing Address:** 14800 West Schulte Rd  
Tracy, CA 95304

**Contact Name:** Joel Lepoutre  
**Phone:** (951) 302-3701

**Responsible Official:** Joel Lepoutre  
**Title:** Asset Manager

**Project # :** N-1100307  
**Deemed Complete:** 2/22/10

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**I. PROPOSAL**

Thermal Energy Development Partnership, L.P. previous Title V permit renewal was finalized on October 20, 2006. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

**II. FACILITY LOCATION**

The facility is located at 14800 W. Schulte Road in Tracy, CA.

**III. EQUIPMENT LISTING**

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

#### IV. GENERAL PERMIT TEMPLATE USAGE

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

##### A. Template SJV-UM-0-2 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-2, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template. However, the template is out of date and will no longer be used. All applicable requirements are explicitly addressed in the permit outside of general permit templates.

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

As mentioned in Section IV above, the applicant is requesting to not use the current model general permit templates. All applicable requirements are explicitly addressed in the permit outside of general permit templates. Therefore, the proposed permit in its entirety is subject to EPA and public review.

#### VI. FEDERALLY ENFORCEABLE REQUIREMENTS

##### A. Rules Updated

- District Rule 2020, Exemptions  
(amended September 21, 2006 ⇒ amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule  
(amended April 21, 2011)
- District Rule 4001, New Source Performance Standards  
(amended September 17, 1997 ⇒ amended April 14, 1999)
- District Rule 4002, National Emission Standards for Hazardous Air Pollutants (amended May 18, 2000 ⇒ amended May 20, 2004)
- District Rule 4352, Solid Fuel Fired Boilers  
(amended May 18, 2006)
- District Rule 4601, Architectural Coatings  
(amended October 31, 2007 ⇒ amended December 17, 2009)
- District Rule 4702, Internal Combustion Engines – Phase 2  
(adopted August 21, 2003 ⇒ amended August 18, 2011)
- 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

- 40 CFR Part 60, Subpart III, Standards for Performance for Stationary Compression Ignition Internal Combustion Engine (amended July 11, 2006)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended November 9, 2007)
- 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Emissions (RICE) (amended January 18, 2008)
- 40 CFR Part 82, Subpart B and Subpart F, Stratospheric Ozone (amended June 8, 2008)

**B. Rules Not Updated**

- 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 (adopted June 15, 1995 ⇒ amended June 21, 2001 )
- District Rule 4101, Visible Emissions (amended November 15, 2001 ⇒ 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 4701, Internal Combustion Engines  
(amended December 19, 2002 ⇒ amended August 21, 2003)
- District Rule 8011, General Requirements  
(Adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8031, Bulk Materials  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8041, Carryout and Trackout  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8051, Open Areas  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas  
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

## 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 Not Updated

- Title 17 CCR, Section 93115 – Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines (amended October 18, 2007)

Conditions 6, 7, 8, 11, 16 and 20 of permit unit N-1026-2 are based on Title 17 CCR, Section 93115 and will therefore not be discussed any further.

Conditions 8, 13, 14, 16, 21 and 25 of permit unit N-1026-9 are based on Title 17 CCR, Section 93115 and will therefore not be discussed any further.

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

Condition 3 of permit unit '0-3 is based on District Rule 1160 and will therefore not be discussed any further.

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

Condition 41 of permit unit '0-3 is based on District Rule 4102 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 serves to address rules that have been amended or added since the issuance of the initial Title V permit. This section will also address rules not adequately addressed in the initial Title V project.

The renewed PTOs were also revised, if applicable, by removing the county rule references for the counties other than the one the facility is actually located in or by removing all county references as obsolete due to a governing District rule contained in the SIP. The following updated conditions reflect correct references:

- Conditions 1 and 2 on the draft facility-wide PTO (N-1026-0-3).
- Condition 1 and 10 of permit N-1026-2-3.
- Condition 15 of permit N-1026-9

### A. District Rule 1100

District Rule 1100 defines a breakdown condition and the procedure that follows if one occurs. The corrective action, the issuance of an emergency variance, and the reporting requirements are also specified.

The following condition ensures has been placed on permit unit '1-12 to ensure compliance with the requirements of this rule:

- Operator shall notify the District no later than one (1) hour after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1100, 6.1]

**B. District Rule 2020 - Exemptions**

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

**C. 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.

**D. District Rule 2520 - Federally Mandated Operating Permits**

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

**E. District Rule 4001 - New Source Performance Standards (NSPS)**

**40 CFR Part 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units**

The requirements of the Code of Federal Regulations, Chapter 40 (40 CFR), Part 60, Subpart Db applies to any steam generating unit with a maximum heat input of greater than 100 MMBtu/hr that has commenced construction, modification, or reconstruction after June 19, 1984. This unit is subject to the requirements of this subpart.

**§60.42b: Standard for sulfur dioxide (SO<sub>2</sub>)**

60.42b(k)(1) limits SO<sub>2</sub> emissions from boilers that are fired on a mixture of natural gas and another fuel (such as biomass) and have been installed, reconstructed, or modified after February 28, 2005 to either 0.20 lb/MMBtu or 92% reduction.

This 259 MMBtu/hr wood-fired boiler has not been modified or reconstructed after February 28, 2005, so it is not currently subject to this SO<sub>2</sub> standard.

**§60.43b: Standard for particulate matter (PM)**

60.43b(c)(1) limits the PM emissions to 0.10 lb/MMBtu if the boiler has an annual capacity factor greater than 30% for wood.

This boiler is fired primarily on biomass (i.e. wood) fuel, so it is subject to the 0.10 lb/MMBtu PM standard. The boiler's PM emissions are limited by permit condition to 8.75 lb/hr, which is equivalent to:

$$\frac{8.75 \frac{\text{lb-PM}}{\text{hr}}}{259 \frac{\text{MMBtu}}{\text{hr}}} = 0.034 \frac{\text{lb-PM}}{\text{MMBtu}}$$

60.43b(f) limits the visible emissions from this unit to not exceed 20% opacity (as measured on a 6-minute average), except for one 6-minute period during any one hour where the opacity shall not exceed 27%.

40 CFR 60.43b(g) exempts this unit from the opacity and particulate matter standards during periods of startup, shutdown, or malfunction.

Condition 1 of permit unit N-1026-1-11 ensures compliance with the requirements of this section:

- No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3-minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity, except for a period or periods of time aggregating no more than 30-minutes in any 24-hour period when the visible emissions result from startup or shutdown of the combustion process or from the malfunction of emission control equipment. Exemption from this requirement shall not apply to visible emissions that exceed a period or periods of time aggregating more than 30-minutes in any 24-hour period, or from visible emissions that result from the failure to operate and maintain in good working order, any emission control equipment. [District Rule 4101, 5.0; CH&SC 41704(n); and 40 CFR 60.43b (f) and (g)]

60.43b(h)(1) and 60.43b(h)(3) limits PM emissions from boilers with a maximum heat input in excess of 250 MMBtu/hr that combust more than 30% wood (by heat input) on an annual basis that have been installed, reconstructed, or modified after February 28, 2005 to 0.085 lb/MMBtu.

This 259 MMBtu/hr wood-fired boiler has not been modified or reconstructed after February 28, 2005, so it is not currently subject to this new PM standard listed in 60.43b(h)(1) and 60.43b(h)(3).

**§60.44b: Standard for nitrogen oxides (NO<sub>x</sub>)**

60.44b(d) limits NO<sub>x</sub> emissions from boilers that are fired on natural gas and wood to 0.30 lb/MMBtu unless the boiler has a federally enforceable permit condition limiting it to an annual capacity factor of 10% for natural gas.

Permit to Operate N-1026-1-11 contains a federally enforceable limit that states that "Natural gas fuel usage shall be limited to an annual capacity factor of 10% or less based on the ratio of actual natural gas heat input and maximum potential heat input had the boiler unit been operating at maximum steady-state capacity for 8,760 hours per year. [District Rule 2201 and 40 CFR 60.44b(d)]". Consequently, this boiler is not subject to the NO<sub>x</sub> standard listed in 60.44b(d).

**§60.45b: Compliance and performance test methods and procedures for sulfur dioxide (SO<sub>2</sub>)**

Since there is no SO<sub>2</sub> standard listed for units that combust wood fuel in combination with natural gas fuel, there are no applicable compliance and performance test methods and procedures for this boiler.

**§60.46b: Compliance and performance test methods and procedures for particulate matter (PM) and nitrogen oxides (NO<sub>x</sub>)**

Particulate matter:

60.46b(b) requires compliance with the particulate matter emission standard of 0.10 lb/MMBtu using EPA source test methods 5, 5B, or 17 and the stack opacity limit using EPA method 9.

The boiler is currently in compliance with both the 0.10 lb-PM/MMBtu and opacity standards, and the facility is required to conduct annual source testing for particulate matter emission rate. Therefore, continued compliance is expected.

Nitrogen oxides:

This boiler is not subject to NO<sub>x</sub> standard listed in section §60.44b(d). Therefore, performance test is not required.

**§60.47b: Emission monitoring for sulfur dioxide (SO<sub>2</sub>)**

Since there is no SO<sub>2</sub> standard listed for units that combust wood fuel in combination with natural gas fuel, there are no applicable emission monitoring requirements for this boiler.

However, conditions 18 and 20 of existing Permit to Operate N-1026-1-11 contain the following language:

- The facility shall install, calibrate, maintain, and operate an oxygen continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0]
- The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64 and District Rule 1080, 4.0]

According to the original 1987 application review, this boiler triggered both BACT and Offsets for every pollutant when it was originally installed. According to the application review, the facility was required to install a continuous emission monitoring system (CEMS) for NO<sub>x</sub>, CO, SO<sub>x</sub>, and O<sub>2</sub>. Although the original application review doesn't specifically state the regulatory basis for requiring the CEMS, it seems logical to assume that because the boiler triggered BACT and Offsets for every pollutant, and because the facility proposed to mitigate the boiler's emissions by burning biomass that would otherwise be burned in open piles in an uncontrolled manner, the CEMS was required so the facility could verify compliance with the proposed permitted emission limits.

**§60.48b: Emission monitoring for particulate matter (PM) and nitrogen oxides (NO<sub>x</sub>)**

Particulate matter:

60.48b(a) requires a boiler that is subject to the opacity standard under 60.43b to install, calibrate, maintain, and operate a continuous opacity monitoring system and to record the output of this system.

This boiler is currently equipped with a continuous opacity monitoring system that complies with the requirements of this subpart.

Nitrogen oxides:

Since no NO<sub>x</sub> standard applies, the NO<sub>x</sub> emission monitoring requirements do not apply. However, condition 21 of existing Permit to Operate N-1026-1-11 contains the following language:

- The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0]

#### **§60.49b: Reporting and recordkeeping requirements**

60.49d(d) requires the facility to maintain records of each fuel combusted and to calculate the annual capacity factor for each fuel at the end of each calendar month. Condition 25 of Permit to Operate N-1026-1-11 contains the following language:

- The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [District Rule 2201 and 40 CFR 60.49b(d)]

Therefore, continued compliance is expected.

#### **40 CFR 60 Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

This subpart is applicable to manufacturers, owners and operators of stationary compression ignited (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

- 1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:
  - a. 2007 or later, for engines that are not fire pumps;
  - b. The model year listed in table 3 to this subpart or later model year, for fire pump engines.
- 2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:
  - a. Manufactured after April 1, 2006 and are not fire pump engines, or

- b. Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006
- 3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.

**Table 3 to Subpart IIII of Part 60—Certification Requirements for Stationary Fire Pump Engines**

Engine power	Starting model year engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)
HP<100	2011
100≤HP<175	2010
175≤HP≤750	2009
HP>750	2008

Permit unit N-1026-2-3 is a fire pump rated at 196 bhp and was manufactured before 2009 and has not been modified. Permit unit N-1026-9-3 is rated at 89.2 bhp and was manufactured before 2005 and has not been modified. Therefore Subpart IIII is not applicable and no further discussion is required.

**F. District Rule 4002 – National Emission Standards for Hazardous Air Pollutants**

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

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. Thermal Energy Development Partnership LP 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.

Both engines were installed before 2006; therefore, as defined by Section 63.65.90(iii), these engines 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. However, the requirements of this regulation will be included in this project for future reference.

40 CFR 63 Subpart ZZZZ section §63.6585(a)(1) indicates the existing stationary CI RICE located at an area source of HAP emissions must comply with the applicable limitations and operating limitations no later than May 3, 2013.



The following condition ensures compliance with the requirements of this section:

- On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ]

40 CFR 63 Subpart ZZZZ section §63.6603(a), states the owner or operator of an existing emergency CI stationary RICE located at an area source of HAP emissions must comply with the requirements listed in Table 2(d)(4).

As stated in §§63.6603 and 63.6640, the following table applies to existing stationary RICE located at area sources of HAP emissions:

For each . . .	You must meet the following requirements, except during periods of startup . . .	During periods of startup you must . . .
4. Emergency stationary CI RICE and black start stationary CI RICE.	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;	N/A
	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

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 ensure compliance with the requirements of this section:

- On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ]
- On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ]
- On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ]

40 CFR 63 Subpart ZZZZ section §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.

The following condition ensures compliance with the requirements of this section:

- {modified 3404} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ]

40 CFR 63 Subpart ZZZZ 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.

The following condition will be placed on permit unit N-1026-2 to ensure compliance:

- 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", 1998 edition. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]

The following condition will be placed on permit unit N-1026-9 to ensure compliance:

- This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]

40 CFR 63 Subpart ZZZZ 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 following condition ensures compliance with the requirements of this section:

- On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ]

40 CFR 63 Subpart ZZZZ section §63.6640(a) states the operator shall demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to the facility according to the methods specified in Table 6 of this subpart.

§63.6640(b). The operator report each instance in which the facility did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that applies. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If the operator must change the catalyst, the operator shall reestablish the values of the operating parameters measured during the initial performance test. When the operator reestablishes the values of the operating parameters, the operator must also conduct a performance test to demonstrate that the facility is meeting the required emission limitation applicable to your stationary RICE.

§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.

- (i) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (ii) The facility 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.
- (iii) The facility may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power

As stated in §63.6640, 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 requirement to . . .	You must demonstrate continuous 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.

The following condition will be placed on permits '-2 and '-9 to ensure compliance with this section:

- {modified 4261} 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]

§63.6640 does not apply for existing stationary emergency RICE. No further discussion is required.

§63.6650 does not apply for existing stationary emergency RICE. No further discussion is required.

40 CFR 63 Subpart ZZZZ 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.

40 CFR 63 Subpart ZZZZ section §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.

40 CFR 63 Subpart ZZZZ section §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 stationary 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.

40 CFR 63 Subpart ZZZZ section §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.

The following condition ensures compliance with the requirements of this section:

- On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ]
- On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ]

§63.6660(a) states the records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

§63.6660(b) states the operator shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record as specified in §63.10(b)(1).

§63.6660(c) states the operator shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to

The following condition ensures compliance with the requirements of this section:

- {modified 3873} All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070, 4702, 2520, 9.4, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ]

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

District Rule 4101 has been submitted to the EPA to replace SIP approved Rule 401 (all counties of the SJVUAPCD). EPA made a preliminary determination that District Rule 4101 is "more stringent" than the county versions previously referenced, per correspondence dated August 20, 1996.

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101. Condition 22 of permit unit '-0-3 ensures compliance.

### **H. District Rule 4352 - Solid Fuel Fired Boilers, Steam Generators, and Process Heaters**

According to the Compliance Schedule in Section 7.1.2.3 of this Rule, units at a stationary source with potential NO<sub>x</sub> or VOC emissions in excess of 20,000 lb/yr must comply with the following Tier 2 NO<sub>x</sub> and CO emission limits of Table 1 by January 1, 2007:

NO<sub>x</sub>: 115 ppmvd @ 3% O<sub>2</sub>

CO: 400 ppmvd @ 3% O<sub>2</sub>

Using the permitted hourly mass emission rates and assuming an oxygen-based F-factor for wood fuel of 9,100 dscf/MMBtu @ 60 °F (EPA Method 19) and a molar specific volume of 379.5 dscf/mol, the boiler's equivalent emission concentrations are:

$$\frac{\left(27.2 \frac{\text{lb}-\text{NO}_x}{\text{hr}}\right) \left(379.5 \frac{\text{ft}^3-\text{NO}_x}{\text{mol}}\right) \left(10^6 \text{ft}^3-\text{exhaust}\right) \left(\frac{20.95-3}{20.95}\right)}{\left(259 \frac{\text{MMBtu}}{\text{hr}}\right) \left(9,100 \frac{\text{ft}^3-\text{exhaust}}{\text{MMBtu}}\right) \left(46 \frac{\text{lb}-\text{NO}_x}{\text{mol}}\right)} = 81.6 \text{ ppmvd @ } 3\% \text{ O}_2$$

$$\frac{\left(74.4 \frac{\text{lb}-\text{CO}}{\text{hr}}\right) \left(379.5 \frac{\text{ft}^3-\text{CO}}{\text{mol}}\right) \left(10^6 \text{ft}^3-\text{exhaust}\right) \left(\frac{20.95-3}{20.95}\right)}{\left(259 \frac{\text{MMBtu}}{\text{hr}}\right) \left(9,100 \frac{\text{ft}^3-\text{exhaust}}{\text{MMBtu}}\right) \left(28 \frac{\text{lb}-\text{CO}}{\text{mol}}\right)} = 366.6 \text{ ppmvd @ } 3\% \text{ O}_2$$

Therefore, the currently permitted NO<sub>x</sub> and CO emission limits are in compliance with the Tier 2 emission limits of this Rule. Continued compliance is expected.

Section 5.5 requires units that use ammonia injection for NO<sub>x</sub> control to use a continuous emission monitoring system (CEMS) for NO<sub>x</sub> and O<sub>2</sub>.

This boiler uses ammonia injection for NO<sub>x</sub> control, and it uses a CEMS for NO<sub>x</sub> and O<sub>2</sub>. Therefore, the boiler is in compliance with the emission monitoring provisions of this Rule. Continued compliance is expected.

Conditions 18, 21, 23, 24, 25, 53, 54, and 64 of permit unit '1-12 ensure compliance.

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

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

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

- The tables outlining the VOC content of different specialty coatings has been largely replaced with the Table of Standards in Section 5.0.
- New labeling, reporting, test methodology and other requirements have been incorporated into the rule in order to allow ARB to administer the Averaging Program as detailed in Section 8.0.

The following permit requirements were added and/or revised to ensure compliance with this rule:



Permit Unit N-1026-0-3 (Facility-Wide Conditions)

- Conditions 23 thru 25 of the requirements for the draft facility-wide permit will assure compliance with the requirements of this rule. These conditions replace conditions 23 thru 25 of the existing facility-wide permit (N-1026-0-3).

**J. District Rule 4701 – Internal Combustion Engines – Phase 1**

Pursuant to Section 7.5.2.3 of District Rule 4702, as of June 1, 2006, District Rule 4701 is no longer applicable to diesel-fired emergency standby or emergency IC engines. Therefore, the proposed emergency internal combustion engine(s) will comply with the requirements of District Rule 4702 and no further discussion is required.

**K. District Rule 4702 – Internal Combustion Engines – Phase 2**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines.

This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower.

Pursuant to Section 4.3, except for the requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following conditions:

- 1) The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood, and
- 2) Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and
- 3) The engine is operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

Therefore, the emergency IC engines, permit units '-2 and '-9, will only have to meet the requirements of Section 6.2.3 of this Rule.

Section 6.2.3 requires that an owner claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least

five years, shall be readily available, and submitted to the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO.

Permit unit '-2-3 is an emergency IC engine powering a firewater pump. Therefore, the following conditions ensure compliance:

- 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", 1998 edition. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]
- The permittee shall maintain monthly records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, and the purpose of the operation (e.g., 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]
- The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115]
- {modified 3403} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]
- {3807} 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]
- All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070, 4702, 2520, 9.4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]

Permit unit '-9-3 is an emergency IC engine powering a generator. Therefore, the following conditions ensure compliance:

- {modified 3403} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]
- 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]
- {3807} 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]
- {3808} 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]
- {3478} 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]
- {3496} The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
- This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ]
- The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115]

- {3475} All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115 and 40 CFR 63, ZZZZ]

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

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

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

Conditions 29 through 34 of permit unit '0-3 ensure compliance.

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

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

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

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

Condition 29 of permit unit '0-3 ensures compliance.

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

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

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

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

Condition 30 of permit unit '-0-3 ensures compliance.

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

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

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

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

Condition 31 of permit unit '-0-3 ensures compliance.

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

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

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

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner/operator shall implement one or a combination of control

measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Condition 32 of permit unit '-0-3 ensures compliance.

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

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

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

Condition 33 of permit unit '-0-3 ensures compliance.

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

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

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

Condition 34 of permit unit '-0-3 ensures compliance.

**O. 40 CFR Part 64-CAM**

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

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

- a. N-1026-1-11: BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR

The following conditions were approved during a previous Title V action (Project #N-1050350) and assure compliance with the CAM requirements:

- The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District NSR Rule] Y

- The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District NSR Rule] Y
- The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64 and District Rule 1080, 4.0] Y
- The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0] Y
- All electrostatic precipitator fields shall be in operation whenever the boiler is operated. The electrostatic precipitator secondary voltage and secondary current settings shall be maintained at levels sufficient to demonstrate a corona power (estimated as secondary voltage, in KiloVolts, multiplied by secondary current, in Amperes) of at least 3.0 KilovoltAmperes in field #1, 5.0 KilovoltAmperes in field #2, 5.0 KilovoltAmperes in field #3 and 12.0 KilovoltAmperes in field #4. Transient corona power disruptions due to arcs and sparks, or similar automatic functions of the electrostatic precipitator, shall not constitute deviations. The electrostatic precipitator shall be maintained in accordance with the manufacturer's recommendations, a copy of which shall be maintained on site. The [40 CFR 64] Y
- The applicant shall record the secondary voltage and the secondary current for each electrostatic precipitator field at least four times daily. [40 CFR 64] Y
- Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64] Y

Since the unit has a continuous emissions monitoring system (CEMS) for NO<sub>x</sub>, SO<sub>x</sub> and PM<sub>10</sub>, CAM is automatically satisfied by the conditions that required CEMS to be installed, calibrated, and maintained, and the data to be reported. The following condition for permit unit N-1026-1-9 ensures compliance with this requirement:

- The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data

and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; 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; and a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0, 40CFR60.49b(h)(1), and 40 CFR 64] Y

b. N-1026-2-3: EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

Since this unit is not equipped with any add-on control devices, CAM is not applicable.

c. N-1026-4-4: ASH AND FUEL STORAGE AREA

Since this unit is not equipped with any add-on control devices, CAM is not applicable.

d. N-1026-5-4: PRIMARY FUEL HANDLING SYSTEM CONSISTING OF TWO RECLAIM AND BLENDING AREAS, CONVEYING TO A DISK SCREEN OR DIVERTED TO A HOG FOR CHIP SIZING, BULK CONVEYOR, FUEL INFEED CONVEYOR, DISTRIBUTION CONVEYOR, THREE METERING BINS, OVERFEED CONVEYOR. SECONDARY FUEL HANDLING SYSTEM CONSISTS OF A RECLAIM AND MIXING AREA, AND A SECONDARY INFEED CONVEYOR SERVING THE DISTRIBUTION CONVEYOR. ALTERNATE BIOMASS FUEL HANDLING SYSTEM CONSISTING OF A 10 CUBIC YARD FEED HOPPER AND AN ENCLOSED FEED CONVEYOR WITH AN ENCLOSED TRANSFER POINT SERVING THE PRIMARY FUEL HANDLING SYSTEM.

Since this unit is not equipped with any add-on control devices, CAM is not applicable.

e. N-1026-6-4: FLYASH HANDLING SYSTEM FROM THE BOILER, THE MULTI-CLONES, AND THE ELECTROSTATIC PRECIPITATOR VIA ENCLOSED CONVEYORS TO A 550 CF ASH HOPPER. ASH CONDITIONER ADDITIVE RECEIVING AND STORAGE SYSTEM. THE ASH HOPPER SERVES AN ASH MIXER AND A TRUCK LOADOUT SPOUT



This unit is equipped with an add-on PM10 control device, and also has an emission limit for PM10. Potential to Emit (PE) calculations are needed in order to determine if CAM is triggered. The calculations below are based on existing permit limits:

PM10 emissions from fly ash and ash conditioner produced:

$$PE = 85 \text{ tons/day} \times 0.0117 \text{ lb/ton} \times 365 \text{ days/yr} = 363 \text{ lb/yr}$$

Assuming 99% control by use of the dust collector, the pre-control potential to emit =  $(363 \text{ lb/yr} / (1.0 - 0.99)) = 36,300 \text{ lb/yr}$

PM10 emissions from ash conditioner additive received:

$$PE = 103.4 \text{ tons/day} \times 0.0039 \text{ lb/ton} \times 365 \text{ days/yr} = 121 \text{ lb/yr}$$

Assuming 99% control by use of the dust collector, the pre-control potential to emit =  $(121 \text{ lb/yr} / (1.0 - 0.99)) = 12,100 \text{ lb/yr}$

Total pre-control PE =  $36,300 \text{ lb/yr} + 12,100 \text{ lb/yr} = 48,400$ .

Since the pre-control PE for this unit does not exceed the PM10 major source threshold of 140,000 lb/yr, CAM is not applicable.

- f. N-1026-7-4: LIMESTONE/LIME RECEIVING AND STORAGE TO A 25 TON STORAGE SILO VENTED TO A DUST COLLECTOR

This unit is equipped with an add-on PM10 control device, and also has an emission limit for PM10. Potential to Emit (PE) calculations are needed in order to determine if CAM is triggered. The calculations below are based on existing permit limits:

PM10 emissions from lime/limestone receiving:

$$PE = 25 \text{ tons/day} \times 0.0049 \text{ lb/ton} \times 365 \text{ days/yr} = 45 \text{ lb/yr}$$

Assuming 99% control by use of the dust collector, the pre-control potential to emit =  $(45 \text{ lb/yr} / (1.0 - 0.99)) = 4,500 \text{ lb/yr}$

Since the pre-control PE for this unit does not exceed the PM10 major source threshold of 140,000 lb/yr, CAM is not applicable.

- g. N-1026-8-4: BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS

Since this unit is not equipped with any add-on control devices, CAM is not applicable.

- h. N-1026-9-3: MAGNETEK (MODEL RD 630) 50 KW EMERGENCY GENERATOR SERVED BY A PERKINS 89.2 HP DIESEL FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH AN ENGELHARD 5DVC CATALYTIC CONVERTER

This unit is equipped with an add-on control device, a catalytic converter, for NOx, CO and VOC. However, this unit does not have emission limits for any of these pollutants; therefore, CAM is not applicable.

- i. N-1026-12-3: RECEIVING AND STORAGE OPERATION USING 2020 CUBIC FOOT SILO SERVED BY AN ALANCO ENVIRONMENTAL MODEL 16AVS6 BIN VENT FILTER

This unit is equipped with an add-on PM10 control device, and also has an emission limit for PM10. Potential to Emit (PE) calculations are needed in order to determine if CAM is triggered. The calculations below are based on existing permit limits:

PM10 emissions from soda ash receiving:

$$PE = 48 \text{ tons/day} \times 0.0049 \text{ lb/ton} \times 365 \text{ days/yr} = 86 \text{ lb/yr}$$

$$\text{Assuming 99\% control by use of the dust collector, the pre-control potential to emit} = (86 \text{ lb/yr} / (1.0 - 0.99)) = 8,600 \text{ lb/yr}$$

Since the pre-control PE for this unit does not exceed the PM10 major source threshold of 140,000 lb/yr, CAM is not applicable.

- j. N-1026-13-1: 15,000 GALLONS PER MINUTE ECODYNE COOLING MODEL 02CFF-0707, 2 CELL (EACH 42 FT X 42 FT), COOLING TOWER EQUIPPED WITH BRENTWOOD INDUSTRIES MODEL CDX-150 "ISOMETRIC" DRIFT ELIMINATOR

Since this unit is not equipped with any add-on control devices, CAM is not applicable.

## 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 has not proposed to use any current model general permit templates for this Title V renewal project.

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

There are no obsolete permit shields conditions to be removed from the permits.

**X. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

**XI. ATTACHMENTS**

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List
- D. Stringency Analysis for District Rule 4601

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: N-1026-0-3

EXPIRATION DATE: 07/31/2010

## FACILITY-WIDE REQUIREMENTS

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: THERMAL ENERGY DEV PARTNERSHIP LP  
Location: 14800 W SCHULTE RD, TRACY, CA 95377  
N-1026-0-3: Oct 28 2011 3:23PM - YOSHIMU

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

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

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-1-11

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3-minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity, except for a period or periods of time aggregating no more than 30-minutes in any 24-hour period when the visible emissions result from startup or shutdown of the combustion process or from the malfunction of emission control equipment. Exemption from this requirement shall not apply to visible emissions that exceed a period or periods of time aggregating more than 30-minutes in any 24-hour period, or from visible emissions that result from the failure to operate and maintain in good working order, any emission control equipment. [District Rule 4101, 5.0; CH&SC 41704(n); and 40 CFR 60.43b (f) and (g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301] Federally Enforceable Through Title V Permit
3. The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The boiler shall utilize limestone/lime injection for SOx control and a thermal DeNOx system (selective non-catalytic reduction system) utilizing ammonia injection for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The particulate matter emissions shall not exceed 8.75 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The PM10 emissions shall not exceed 8.75 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 6.25 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The NOx emissions shall not exceed 27.2 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The CO emissions shall not exceed 74.4 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The CO emissions shall not exceed 1545.6 pounds per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The CO emissions shall not exceed 537,280 pounds per year. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The VOC emissions shall not exceed 12.8 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The ammonia emissions shall not exceed 100 ppm, by volume, at 3% O<sub>2</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The boiler shall be equipped with an automatic air/fuel ratio control system. [District NSR Rule] Federally Enforceable Through Title V Permit
16. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [District Rule 4001] Federally Enforceable Through Title V Permit
17. Natural gas fired burners shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. The natural gas burners shall be of staged combustion, low-NO<sub>x</sub> design. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The facility shall install, calibrate, maintain, and operate an oxygen continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
19. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.48b, and 40 CFR 60 Appendices B and F. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. [40 CFR 60.48b, 40 CFR 64 and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
20. The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64 and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
21. The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
22. The facility shall install, calibrate, maintain, and operate a carbon monoxide continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60 and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
23. Except during the annual source test, compliance with the hourly emission limits of NO<sub>x</sub>, CO, and SO<sub>x</sub> shall be determined by the continuous monitoring and recording equipment and shall be based on a 24 hour rolling average. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit
24. During the annual source test, compliance with the hourly emission limits of NO<sub>x</sub>, CO, and SO<sub>x</sub> shall be based on a 3 hour rolling average. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit
25. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [District Rules 2201 and 4352 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
26. Adequate amounts of agricultural waste which otherwise would be disposed of by open burning shall be used as boiler fuel to provide offsets at adequate ratios (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). [District NSR Rule] Federally Enforceable Through Title V Permit
27. The above ratios shall be used to mitigate the following daily emissions limits: PM - 263.7 lbs; NO<sub>x</sub> - 726.3 lbs; CO - 1,472 lbs; VOC - 314.8 lbs. [District NSR Rule] 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. To obtain an average daily emission offset credit, first a monthly emission offset profile is developed by multiplying the quantity of each fuel by its respective emission factor. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Monthly emission credits are totalled for the year and multiplied by the appropriate offset ratio (1/2 or 1/1.2). The result is divided by the number of operating days during the year to establish an average daily offset credits. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Any fuel which is not combusted in the boiler within 12 months of delivery to the site shall not have any value for emission credits purposes. [District NSR Rule] Federally Enforceable Through Title V Permit
31. The amount of fuel with no offset value shall be determined by subtracting the amount of fuel consumed by the boiler from the total amount of fuel received at the facility during any twelve month period. [District NSR Rule] Federally Enforceable Through Title V Permit
32. No later than October 1st of each calendar year, the permittee shall provide District with legal, binding contracts with the owners of the offset sources which cover at the minimum, the full amount of offsets required for the following calendar year. To satisfy this condition, the facility is only required to submit copies of contracts that were initially issued (i.e. new), modified, or renewed during the 12-month period preceding the reporting deadline. [District Rule 2201] Federally Enforceable Through Title V Permit
33. All such offset contracts shall become part of this Permit to Operate and shall be enforceable pursuant to the applicable rules and regulations. [District NSR Rule] Federally Enforceable Through Title V Permit
34. No chemically treated wood products including painted or oil stained material other than pesticide sprayed agricultural waste shall be used as fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Source testing shall be conducted, using the methods and procedures approved by the District to demonstrate compliance with the VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, SO<sub>x</sub>, particulate matter, and ammonia emission limits on an annual basis. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Compliance with the hourly emission rates for NO<sub>x</sub>, CO, VOC, SO<sub>x</sub>, PM<sub>10</sub>, and particulate matter and the ammonia concentration while source testing shall be determined using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0. [District NSR Rule and 1081, 6.0] Federally Enforceable Through Title V Permit
37. The District must be notified 30 days prior to any compliance source testing and the permittee shall submit a source test plan for District approval at least 15 days prior to source test sampling. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
38. The pre-test plan shall outline the test methods, procedures, and operating parameters for each source test required. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
39. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
40. No putrescible material shall be received at this facility and/or combusted in the boiler. [District NSR Rule] Federally Enforceable Through Title V Permit
41. Prior notification and District approval shall be required upon any new fuel usage. [District NSR Rule] Federally Enforceable Through Title V Permit
42. Source testing to measure concentrations of oxides of nitrogen (as NO<sub>2</sub>) shall be conducted using EPA method 7E or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
43. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10, or CARB methods 10 or 100. [District NSR Rule] Federally Enforceable Through Title V Permit
44. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District NSR Rule] 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.

45. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA methods 18 or 25, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
46. Source testing to measure concentrations of oxides of sulfur (SOx) as SO2 shall be conducted using EPA methods 6 or 8, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
47. Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not include ammonia sulfate compounds. [District NSR Rule] Federally Enforceable Through Title V Permit
48. Source testing to measure concentrations of PM10 shall be conducted using EPA method 201 and 202, or EPA method 201a and 202, or CARB method 501 and 5. [District NSR Rule] Federally Enforceable Through Title V Permit
49. In lieu of performing a source test for PM10, the results of the total particulate test may be used for compliance with the PM10 emissions limit. [District NSR Rule] Federally Enforceable Through Title V Permit
50. Source testing to measure stack gas velocity shall be conducted using EPA method 2 or CARB method 2. [District NSR Rule] Federally Enforceable Through Title V Permit
51. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District NSR Rule] Federally Enforceable Through Title V Permit
52. Source testing to measure concentrations of NH3 shall be conducted using Bay Area Air Quality Management District (BAAQMD) method ST-1B. [District NSR Rule] Federally Enforceable Through Title V Permit
53. Solid fuel higher heating value (hhv) shall be determined by ASTM Method D 2015, or ASTM Method E 711. [District Rule 4352, 6.2.2, and 6.4.1] Federally Enforceable Through Title V Permit
54. All emission measurements shall be made with the unit operating at condition representative of normal operations. No 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, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
55. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; 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; and a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0, 40CFR60.49b(h)(1), and 40 CFR 64] Federally Enforceable Through Title V Permit
56. Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
57. Within 96 hours, the operator shall report to the District any violation of the NOx, CO, or SOx emission standards indicated by the CEMS. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
58. Operator shall notify the District no later than one (1) hour after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
59. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
60. Natural gas fuel usage shall be limited to an annual capacity factor of 10% or less based on the ratio of actual natural gas heat input and maximum potential heat input had the boiler unit been operating at maximum steady-state capacity for 8,760 hours per year. [District Rule 2201 and 40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit
61. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1080, Sections 4, 6.5, 6.6, 6.7, 7.2, 8.0, 9.0, and 10. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

62. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
63. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4301, Sections 5.1, 5.2.2, and 5.2.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
64. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4352, Sections 5.1, and 5.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
65. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
66. All electrostatic precipitator fields shall be in operation whenever the boiler is operated. The electrostatic precipitator secondary voltage and secondary current settings shall be maintained at levels sufficient to demonstrate a corona power (estimated as secondary voltage, in KiloVolts, multiplied by secondary current, in Amperes) of at least 3.0 KilovoltAmperes in field #1, 5.0 KilovoltAmperes in field #2, 5.0 KilovoltAmperes in field #3 and 12.0 KilovoltAmperes in field #4. Transient corona power disruptions due to arcs and sparks, or similar automatic functions of the electrostatic precipitator, shall not constitute deviations. The electrostatic precipitator shall be maintained in accordance with the manufacturer's recommendations, a copy of which shall be maintained on site. The [40 CFR 64] Federally Enforceable Through Title V Permit
67. The applicant shall record the secondary voltage and the secondary current for each electrostatic precipitator field at least four times daily. [40 CFR 64] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-2-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**  
EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

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## PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 407 ( San Joaquin )] Federally Enforceable Through Title V Permit
2. This engine shall be used exclusively for fire fighting purposes. [District Rule 4702, 4.3.1] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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12. 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", 1998 edition. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 2520, 9.4, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-4-4

**EQUIPMENT DESCRIPTION:**  
ASH AND FUEL STORAGE AREA

**EXPIRATION DATE:** 07/31/2010  
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## PERMIT UNIT REQUIREMENTS

1. All haul roads and other areas traversed by mobile equipment and/or motor vehicles shall be adequately moistened with water at such a frequency as required to minimize emissions of particulate matter. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Water all unpaved roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All open fuel storage area shall be maintained adequately moist to prevent any visible dust in the atmosphere beyond the property line of the emission source. [District NSR Rule] Federally Enforceable Through Title V Permit
4. All ash and fuel stockpiles shall be maintained adequately moist with water at such a frequency as required to minimize fugitive dust emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Apply water to the entire surface area of all open ash storage piles on a daily basis when there is evidence of wind driven fugitive dust. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The moisture content of the ash stored shall be maintained at or above 6% by weight at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The ash moisture content shall be tested weekly. Ash moisture content shall be determined by using ASTM Method D 2216 (Standard Test Method For Laboratory Determination Of Water Moisture Content of Soil and Rock By Mass), or other equivalent test methods approved by the EPA, ARB, and the District. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Visible emissions from ash and fuel storage area shall be checked weekly. If visible emissions in excess of 20% are observed, corrective action shall be taken to minimize visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The total on site ash and fuel storage area shall be limited to 28 acres. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration from the fuel and ash storage shall not exceed 0.6 pounds per acre-day. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The total amount of fuel received, stockpiled, and moved shall not exceed 1,530 dry tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The total amount of both fly ash and bottom ash produced by the biomass boiler and stockpiled shall not exceed 125 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The PM10 emission concentration from the stockpiling, mixing and moving operations shall not exceed 0.0059 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



14. Records of type of control measures used, the location and extent of control coverage, the date and frequency of application of dust suppressant, and ash moisture content shall be maintained. The records shall include identification of the area, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 1070] Federally Enforceable Through Title V Permit
15. Daily records indicating the amount of ash and fuel put into storage and the amount of storage area used shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59P^{0.62}$  ( $P<30$  tons/hr) or  $E=17.31P^{0.16}$  ( $P>30$  tons/hr). [District Rule 4202] Federally Enforceable Through Title V Permit
17. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Records of inspections shall be maintained for a period of at least five years. The records shall include date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2, and 9.4.2] Federally Enforceable Through Title V Permit
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-5-4

**EXPIRATION DATE:** 07/31/2010

## **EQUIPMENT DESCRIPTION:**

PRIMARY FUEL HANDLING SYSTEM CONSISTING OF TWO RECLAIM AND BLENDING AREAS, CONVEYING TO A DISK SCREEN OR DIVERTED TO A HOG FOR CHIP SIZING, BULK CONVEYOR, FUEL INFEED CONVEYOR, DISTRIBUTION CONVEYOR, THREE METERING BINS, OVERFEED CONVEYOR. SECONDARY FUEL HANDLING SYSTEM CONSISTS OF A RECLAIM AND MIXING AREA, AND A SECONDARY INFEED CONVEYOR SERVING THE DISTRIBUTION CONVEYOR. ALTERNATE BIOMASS FUEL HANDLING SYSTEM CONSISTING OF A 10 CUBIC YARD FEED HOPPER AND AN ENCLOSED FEED CONVEYOR WITH AN ENCLOSED TRANSFER POINT SERVING THE PRIMARY FUEL HANDLING SYSTEM.

## **PERMIT UNIT REQUIREMENTS**

1. All conveyor transfer points shall be enclosed or shall be equipped with water spray equipment. The water spray equipment shall be in proper operating condition at all times and must be used as required to minimize particulate emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The disc screen, wood hog, and all associated equipment and transfer points shall be enclosed. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The amount of material handled by the primary fuel handling system shall not exceed 960 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The PM10 emission concentration from the primary fuel handling system shall not exceed 0.00067 pounds per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The amount of material handled by the secondary/emergency handling system shall not exceed 960 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emission concentration from the secondary/emergency fuel handling system shall not exceed 0.00024 pounds per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The amount of material handled by the alternate biomass handling system shall not exceed 270 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The PM10 emission concentration from the alternate biomass fuel handling system shall not exceed 0.00023 pounds per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Daily records indicating the amount of fuel throughput in the primary fuel handling system, the secondary/emergency fuel handling system, and the alternate biomass handling system shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59P^{0.62}$  ( $P<30$  tons/hr) or  $E=17.31P^{0.16}$  ( $P>30$  tons/hr). [District Rule 4202] Federally Enforceable Through Title V Permit
11. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Records of system maintenance, inspections and repairs shall be maintained for a period of at least five years. The records shall include identification of equipment, date and time of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2, and 9.4.2] Federally Enforceable Through Title V Permit
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-6-4

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

FLYASH HANDLING SYSTEM FROM THE BOILER, THE MULTI-CLONES, AND THE ELECTROSTATIC PRECIPITATOR VIA ENCLOSED CONVEYORS TO A 550 CF ASH HOPPER. ASH CONDITIONER ADDITIVE RECEIVING AND STORAGE SYSTEM. THE ASH HOPPER SERVES AN ASH MIXER AND A TRUCK LOADOUT SPOUT

## PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The cleaning frequency and duration of the dust collector shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Visible emissions from the ash handling and loadout operations, prior to loading to the ash storage area (N-1026-4), shall not exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the ash conditioner additive silo shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The flyash from the boiler, the multi-clones, and the electrostatic precipitator shall be transferred into the ash hopper through a totally enclosed dust tight conveying system. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Upon discharge from the storage silo and prior to loading into trucks, ash shall be moistened with water to minimize fugitive emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The amount of fly ash and ash conditioner produced from the boiler shall not exceed 85 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The PM10 emission concentration shall not exceed 0.0117 pounds per ton of fly ash and ash conditioner produced. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of ash conditioner additive received shall not exceed 103.4 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration from the ash conditioner additive receiving operation shall not exceed 0.0039 pounds per ton of additive received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of ash conditioner received and the amount of fly ash and ash conditioner mixed and collected from the biomass boiler shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
13. Flyash conveying system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Ash conditioner receiving and storage system and ash loadout operation shall be inspected for visible emissions annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
16. Vent filters serving the ash conditioner additive silo shall be inspected for visible emissions annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further loading. Corrective action shall eliminate visible emissions before next loading event. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Permittee shall perform a complete vent filter inspection on an annual basis. Vent filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Records of vent filter maintenance, inspections and repairs shall be maintained. The records shall include identification of equipment, date and time of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-7-4

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

LIMESTONE/LIME RECEIVING AND STORAGE TO A 25 TON STORAGE SILO VENTED TO A DUST COLLECTOR

## PERMIT UNIT REQUIREMENTS

1. Visible emissions from the dust collector serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Limestone/Lime shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The pneumatic transfer components and connections shall be totally dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The storage silo shall be totally dust tight and vented only through the dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of lime/limestone received shall not exceed 25 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration shall not exceed 0.0049 pounds per ton of lime/limestone received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of lime/limestone received shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Visible emissions from the dust collector serving the storage silo shall be inspected annually 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, 9.3.2] Federally Enforceable Through Title V Permit
14. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. 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, 9.3.2] Federally Enforceable Through Title V Permit
16. 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, 9.3.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-8-4

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS

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## PERMIT UNIT REQUIREMENTS

1. All haul roads and other roadways traversed by mobile equipment and/or motor vehicles shall be adequately moistened with water at such a frequency as required to prevent visible emissions equal to or in excess of 20% opacity from such roads. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Water all unpaved roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Fugitive particulate matter emissions generated during the unloading of trucks shall be minimized by a wet dust suppression system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Spray nozzles shall be located around the Truck Unloading Discharge area. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The wet dust suppression system shall be automatically activated as the truck unloading operation begins. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The amount of fuel material received shall not exceed 1,530 dry tons in any one day. A dry ton is the weight of the biomass fuel with a moisture content of less than 30%. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The PM10 emission concentration shall not exceed 0.0018 pounds per dry ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The permittee shall maintain a daily log of all fuel material received. The log shall indicate the amount of fuel received in dry tons, the type of fuel, and the location from which the fuel was obtained. [District NSR Rule] Federally Enforceable Through Title V Permit
9. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
11. Wet dust suppression system shall be inspected weekly and maintained in a good operating condition. Records of system maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-9-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

MAGNETEK (MODEL RD 630) 50 KW EMERGENCY GENERATOR SERVED BY A PERKINS 89.2 HP DIESEL FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH AN ENGELHARD 5DVC CATALYTIC CONVERTER

## PERMIT UNIT REQUIREMENTS

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. 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
7. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
8. 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
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. 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
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
16. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, 40 CFR Part 60, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
24. On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-12-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

RECEIVING AND STORAGE OPERATION USING 2020 CUBIC FOOT SILO SERVED BY AN ALANCO ENVIRONMENTAL MODEL 16AVS6 BIN VENT FILTER

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## PERMIT UNIT REQUIREMENTS

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1. This silo shall be used to store an absorbent material such as sodium carbonate, sodium bicarbonate, or other similar (non-HAP) material for use as a flue gas conditioner prior to the electrostatic precipitator. The material shall not contain any hazardous air pollutant (HAP). The most recent product data sheets or MSDSs shall be kept on-site and shall be presented to the District upon request. [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.0] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of material received shall not exceed 48 tons in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0049 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the amount of material received into the storage silo shall be maintained and updated daily. [District NSR and 1070 Rules] Federally Enforceable Through Title V Permit
11. Visible emissions shall be inspected annual 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, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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13. 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, 9.3.2] Federally Enforceable Through Title V Permit
14. 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, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if  $P$  is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if  $P$  is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-13-1

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

15,000 GALLONS PER MINUTE ECODYNE COOLING MODEL 02CFF-0707, 2 CELL (EACH 42 FT X 42 FT), COOLING TOWER EQUIPPED WITH BRENTWOOD INDUSTRIES MODEL CDX-150 "ISOMETRIC" DRIFT ELIMINATOR

## PERMIT UNIT REQUIREMENTS

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1. 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
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Previous Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: N-1026-0-2

EXPIRATION DATE: 07/31/2010

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020. [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, 9.7.1 and 9.11.1] 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 (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: THERMAL ENERGY DEV PARTNERSHIP LP  
Location: 14800 W SCHULTE RD, TRACY, CA 95377  
N-1026-0-2: Oct 11 2011 1:23PM - YOSHIMUJ

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. [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101, by using EPA method 9. 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, 5.0] Federally Enforceable Through Title V Permit

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



23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 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 F. [40 CFR Part 82, Subpart F] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V 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 compliance with the following outdated SIP requirements: Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), 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 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 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (9/17/97); 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. The reporting period of the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of reporting period. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-1-10

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3-minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity, except for a period or periods of time aggregating no more than 30-minutes in any 24-hour period when the visible emissions result from startup or shutdown of the combustion process or from the malfunction of emission control equipment. Exemption from this requirement shall not apply to visible emissions that exceed a period or periods of time aggregating more than 30-minutes in any 24-hour period, or from visible emissions that result from the failure to operate and maintain in good working order, any emission control equipment. [District Rule 4101, 5.0; CH&SC 41704(n); and 40 CFR 60.43b (f) and (g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301] Federally Enforceable Through Title V Permit
3. The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The boiler shall utilize limestone/lime injection for SO<sub>x</sub> control and a thermal DeNO<sub>x</sub> system (selective non-catalytic reduction system) utilizing ammonia injection for NO<sub>x</sub> control. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The particulate matter emissions shall not exceed 8.75 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The PM<sub>10</sub> emissions shall not exceed 8.75 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The SO<sub>x</sub> emissions shall not exceed 6.25 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> emissions shall not exceed 27.2 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The CO emissions shall not exceed 74.4 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The CO emissions shall not exceed 1545.6 pounds per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The CO emissions shall not exceed 537,280 pounds per year. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The VOC emissions shall not exceed 12.8 pounds during any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The ammonia emissions shall not exceed 100 ppm, by volume, at 3% O<sub>2</sub>. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The boiler shall be equipped with an automatic air/fuel ratio control system. [District NSR Rule] Federally Enforceable Through Title V Permit
16. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [District Rule 4001] Federally Enforceable Through Title V Permit
17. Natural gas fired burners shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. The natural gas burners shall be of staged combustion, low-NO<sub>x</sub> design. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The facility shall install, calibrate, maintain, and operate an oxygen continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
19. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.48b, and 40 CFR 60 Appendices B and F. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. [40 CFR 60.48b, 40 CFR 64 and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
20. The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64 and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
21. The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60, 40 CFR 64, District Rule 4352, and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
22. The facility shall install, calibrate, maintain, and operate a carbon monoxide continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule, 40 CFR 60 and District Rule 1080, 4.0] Federally Enforceable Through Title V Permit
23. Except during the annual source test, compliance with the hourly emission limits of NO<sub>x</sub>, CO, and SO<sub>x</sub> shall be determined by the continuous monitoring and recording equipment and shall be based on a 24 hour rolling average. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit
24. During the annual source test, compliance with the hourly emission limits of NO<sub>x</sub>, CO, and SO<sub>x</sub> shall be based on a 3 hour rolling average. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit
25. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [District Rule 2201 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
26. Adequate amounts of agricultural waste which otherwise would be disposed of by open burning shall be used as boiler fuel to provide offsets at adequate ratios (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). [District NSR Rule] Federally Enforceable Through Title V Permit
27. The above ratios shall be used to mitigate the following daily emissions limits: PM - 263.7 lbs; NO<sub>x</sub> - 726.3 lbs; CO - 1,472 lbs; VOC - 314.8 lbs. [District NSR Rule] 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. No later than December 1st of each calendar year, the permittee shall submit an Emission Offset Report to the District for the following calendar year. The Report shall include copies of creditable agricultural waste fuel purchase contracts for the following calendar year, including the quantity of offset credits they could generate, and the quantity of offset credits available from the Accrued Unused Offset Balance as determined by the Credit Accounting Report, as of October 1st of the current calendar year. The Report shall demonstrate that the quantity of all available and projected offsets to be generated for the following calendar year is equal or greater than the full amount of offsets required by this permit for the following calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The amount of offsets required by this permit for the following calendar year is equal to the highest hourly, daily, monthly or annual emission rate limit contained in this permit for NO<sub>x</sub>, SO<sub>x</sub>, CO, VOC, PM and PM<sub>10</sub>, calculated on an annualized basis. [District Rule 2201] Federally Enforceable Through Title V Permit
30. The permittee shall maintain a monthly Credit Accounting Report available for review by the District upon request. The Report shall demonstrate that sufficient credits were provided to fully offset the actual emissions emitted for each pollutant. The Report shall calculate each of the following monthly: Offset Credits Generated, Monthly Emission Rate, Offset Credit Surplus, Accrued Unused Offset Balance, and Expired Credits. The monthly calculations shall be completed by the 15th day of the following calendar month. The Offset Credits Generated shall be determined by multiplying the weight of each creditable fuel received with its respective open-burn emission factor and divide the resultant by the appropriate distance offset ratio (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). The Monthly Emission Rate shall be determined by multiplying the daily emission limit for each pollutant by the number of operating days in a month. The Offset Credit Surplus (or deficit) shall be determined by subtracting the Monthly Emission Rate from the Offset Credits Generated. The Accrued Unused Offset Balance shall be determined by summing the Offset Credit Surplus (or deficit) for each month, beginning in January 2001, and subtracting any Expired Credits. Expired Credits shall be determined by summing the Offset Credit Surplus (or deficit) for the previous 11 months and subtracting this value from the current Accrued Unused Offset Balance. Any positive value resulting from this calculation will determine the quantity of Expired Credits. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The permittee shall maintain copies of each executed creditable agricultural waste fuel purchase contract. [District Rule 2201] Federally Enforceable Through Title V Permit
32. All such offset contracts shall become part of this Permit to Operate and shall be enforceable pursuant to the applicable rules and regulations. [District NSR Rule] Federally Enforceable Through Title V Permit
33. No chemically treated wood products including painted or oil stained material other than pesticide sprayed agricultural waste shall be used as fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Source testing shall be conducted, using the methods and procedures approved by the District to demonstrate compliance with the VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, SO<sub>x</sub>, particulate matter, and ammonia emission limits on an annual basis. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Compliance with the hourly emission rates for NO<sub>x</sub>, CO, VOC, SO<sub>x</sub>, PM<sub>10</sub>, and particulate matter and the ammonia concentration while source testing shall be determined using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0. [District NSR Rule and 1081, 6.0] Federally Enforceable Through Title V Permit
36. The District must be notified 30 days prior to any compliance source testing and the permittee shall submit a source test plan for District approval at least 15 days prior to source test sampling. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
37. The pre-test plan shall outline the test methods, procedures, and operating parameters for each source test required. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
38. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
39. No putrescible material shall be received at this facility and/or combusted in the boiler. [District NSR Rule] 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.

40. Prior notification and District approval shall be required upon any new fuel usage. [District NSR Rule] Federally Enforceable Through Title V Permit
41. Source testing to measure concentrations of oxides of nitrogen (as NO<sub>2</sub>) shall be conducted using EPA method 7E or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
42. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10, or CARB methods 10 or 100. [District NSR Rule] Federally Enforceable Through Title V Permit
43. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
44. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA methods 18 or 25, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
45. Source testing to measure concentrations of oxides of sulfur (SO<sub>x</sub>) as SO<sub>2</sub> shall be conducted using EPA methods 6 or 8, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
46. Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not include ammonia sulfate compounds. [District NSR Rule] Federally Enforceable Through Title V Permit
47. Source testing to measure concentrations of PM<sub>10</sub> shall be conducted using EPA method 201 and 202, or EPA method 201a and 202, or CARB method 501 and 5. [District NSR Rule] Federally Enforceable Through Title V Permit
48. In lieu of performing a source test for PM<sub>10</sub>, the results of the total particulate test may be used for compliance with the PM<sub>10</sub> emissions limit. [District NSR Rule] Federally Enforceable Through Title V Permit
49. Source testing to measure stack gas velocity shall be conducted using EPA method 2 or CARB method 2. [District NSR Rule] Federally Enforceable Through Title V Permit
50. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District NSR Rule] Federally Enforceable Through Title V Permit
51. Source testing to measure concentrations of NH<sub>3</sub> shall be conducted using Bay Area Air Quality Management District (BAAQMD) method ST-1B. [District NSR Rule] Federally Enforceable Through Title V Permit
52. Solid fuel higher heating value (hhv) shall be determined by ASTM Method D 2015, or ASTM Method E 711. [District Rule 4352, 6.2.2, and 6.4.1] Federally Enforceable Through Title V Permit
53. All emission measurements shall be made with the unit operating at condition representative of normal operations. No 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, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
54. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; 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; and a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0, 40CFR60.49b(h)(1), and 40 CFR 64] Federally Enforceable Through Title V Permit
55. Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
56. Within 96 hours, the operator shall report to the District any violation of the NO<sub>x</sub>, CO, or SO<sub>x</sub> emission standards indicated by the CEMS. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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57. Operator shall notify the District no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
58. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
59. Natural gas fuel usage shall be limited to an annual capacity factor of 10% or less based on the ratio of actual natural gas heat input and maximum potential heat input had the boiler unit been operating at maximum steady-state capacity for 8,760 hours per year. [District Rule 2201 and 40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit
60. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1080, Sections 4, 6.5, 6.6, 6.7, 7.2, 8.0, 9.0, and 10. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
61. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
62. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4301, Sections 5.1, 5.2.2, and 5.2.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
63. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4352, Sections 5.1, and 5.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
64. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
65. All electrostatic precipitator fields shall be in operation whenever the boiler is operated. The electrostatic precipitator secondary voltage and secondary current settings shall be maintained at levels sufficient to demonstrate a corona power (estimated as secondary voltage, in KiloVolts, multiplied by secondary current, in Amperes) of at least 3.0 KilovoltAmperes in field #1, 5.0 KilovoltAmperes in field #2, 5.0 KilovoltAmperes in field #3 and 12.0 KilovoltAmperes in field #4. Transient corona power disruptions due to arcs and sparks, or similar automatic functions of the electrostatic precipitator, shall not constitute deviations. The electrostatic precipitator shall be maintained in accordance with the manufacturer's recommendations, a copy of which shall be maintained on site. The [40 CFR 64] Federally Enforceable Through Title V Permit
66. The applicant shall record the secondary voltage and the secondary current for each electrostatic precipitator field at least four times daily. [40 CFR 64] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-2-2

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**  
EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

## PERMIT UNIT REQUIREMENTS

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1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
3. This engine shall be operated using only CARB certified diesel fuel. [17 CCR 93115, Rule 404 (Madera), 406 (Fresno) and Rule 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
4. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., 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. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701 and 4702, 6.2.3, and 17 CCR 93115 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit .

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



9. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for maintenance, testing, and 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", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.3.1] Federally Enforceable Through Title V Permit
12. This engine shall be used exclusively for fire fighting purposes. [District Rule 4702, 4.3.1] 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:** N-1026-4-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**  
ASH AND FUEL STORAGE AREA

## PERMIT UNIT REQUIREMENTS

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1. All haul roads and other areas traversed by mobile equipment and/or motor vehicles shall be adequately moistened with water at such a frequency as required to minimize emissions of particulate matter. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Water all unpaved roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All open fuel storage area shall be maintained adequately moist to prevent any visible dust in the atmosphere beyond the property line of the emission source. [District NSR Rule] Federally Enforceable Through Title V Permit
4. All ash and fuel stockpiles shall be maintained adequately moist with water at such a frequency as required to minimize fugitive dust emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Apply water to the entire surface area of all open ash storage piles on a daily basis when there is evidence of wind driven fugitive dust. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The moisture content of the ash stored shall be maintained at or above 6% by weight at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The ash moisture content shall be tested weekly. Ash moisture content shall be determined by using ASTM Method D 2216 (Standard Test Method For Laboratory Determination Of Water Moisture Content of Soil and Rock By Mass), or other equivalent test methods approved by the EPA, ARB, and the District. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Visible emissions from ash and fuel storage area shall be checked weekly. If visible emissions in excess of 20% are observed, corrective action shall be taken to minimize visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The total on site ash and fuel storage area shall be limited to 28 acres. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration from the fuel and ash storage shall not exceed 0.6 pounds per acre-day. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The total amount of fuel received, stockpiled, and moved shall not exceed 1,530 dry tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The total amount of both fly ash and bottom ash produced by the biomass boiler and stockpiled shall not exceed 125 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The PM10 emission concentration from the stockpiling, mixing and moving operations shall not exceed 0.0059 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Records of type of control measures used, the location and extent of control coverage, the date and frequency of application of dust suppressant, and ash moisture content shall be maintained. The records shall include identification of the area, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 1070] Federally Enforceable Through Title V Permit
15. Daily records indicating the amount of ash and fuel put into storage and the amount of storage area used shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59P^{0.62}$  ( $P<30$  tons/hr) or  $E=17.31P^{0.16}$  ( $P>30$  tons/hr). [District Rule 4202] Federally Enforceable Through Title V Permit
17. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Records of inspections shall be maintained for a period of at least five years. The records shall include date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2, and 9.4.2] Federally Enforceable Through Title V Permit
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-5-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

PRIMARY FUEL HANDLING SYSTEM CONSISTING OF TWO RECLAIM AND BLENDING AREAS, CONVEYING TO A DISK SCREEN OR DIVERTED TO A HOG FOR CHIP SIZING, BULK CONVEYOR, FUEL INFEED CONVEYOR, DISTRIBUTION CONVEYOR, THREE METERING BINS, OVERFEED CONVEYOR. SECONDARY FUEL HANDLING SYSTEM CONSISTS OF A RECLAIM AND MIXING AREA, AND A SECONDARY INFEED CONVEYOR SERVING THE DISTRIBUTION CONVEYOR. ALTERNATE BIOMASS FUEL HANDLING SYSTEM CONSISTING OF A 10 CUBIC YARD FEED HOPPER AND AN ENCLOSED FEED CONVEYOR WITH AN ENCLOSED TRANSFER POINT SERVING THE PRIMARY FUEL HANDLING SYSTEM.

## PERMIT UNIT REQUIREMENTS

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1. All conveyor transfer points shall be enclosed or shall be equipped with water spray equipment. The water spray equipment shall be in proper operating condition at all times and must be used as required to minimize particulate emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The disc screen, wood hog, and all associated equipment and transfer points shall be enclosed. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The amount of material handled by the primary fuel handling system shall not exceed 960 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The PM10 emission concentration from the primary fuel handling system shall not exceed 0.00067 pounds per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The amount of material handled by the secondary/emergency handling system shall not exceed 960 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emission concentration from the secondary/emergency fuel handling system shall not exceed 0.00024 pounds per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The amount of material handled by the alternate biomass handling system shall not exceed 270 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The PM10 emission concentration from the alternate biomass fuel handling system shall not exceed 0.00023 pounds per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Daily records indicating the amount of fuel throughput in the primary fuel handling system, the secondary/emergency fuel handling system, and the alternate biomass handling system shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59P^{0.62}$  ( $P<30$  tons/hr) or  $E=17.31P^{0.16}$  ( $P>30$  tons/hr). [District Rule 4202] Federally Enforceable Through Title V Permit
11. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Records of system maintenance, inspections and repairs shall be maintained for a period of at least five years. The records shall include identification of equipment, date and time of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2, and 9.4.2] Federally Enforceable Through Title V Permit
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-6-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

FLYASH HANDLING SYSTEM FROM THE BOILER, THE MULTI-CLONES, AND THE ELECTROSTATIC PRECIPITATOR VIA ENCLOSED CONVEYORS TO A 550 CF ASH HOPPER. ASH CONDITIONER ADDITIVE RECEIVING AND STORAGE SYSTEM. THE ASH HOPPER SERVES AN ASH MIXER AND A TRUCK LOADOUT SPOUT

## PERMIT UNIT REQUIREMENTS

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1. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The cleaning frequency and duration of the dust collector shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Visible emissions from the ash handling and loadout operations, prior to loading to the ash storage area (N-1026-4), shall not exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the ash conditioner additive silo shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The flyash from the boiler, the multi-clones, and the electrostatic precipitator shall be transferred into the ash hopper through a totally enclosed dust tight conveying system. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Upon discharge from the storage silo and prior to loading into trucks, ash shall be moistened with water to minimize fugitive emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The amount of fly ash and ash conditioner produced from the boiler shall not exceed 85 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The PM10 emission concentration shall not exceed 0.0117 pounds per ton of fly ash and ash conditioner produced. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of ash conditioner additive received shall not exceed 103.4 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration from the ash conditioner additive receiving operation shall not exceed 0.0039 pounds per ton of additive received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of ash conditioner received and the amount of fly ash and ash conditioner mixed and collected from the biomass boiler shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
13. Flyash conveying system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Ash conditioner receiving and storage system and ash loadout operation shall be inspected for visible emissions annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
16. Vent filters serving the ash conditioner additive silo shall be inspected for visible emissions annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further loading. Corrective action shall eliminate visible emissions before next loading event. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Permittee shall perform a complete vent filter inspection on an annual basis. Vent filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Records of vent filter maintenance, inspections and repairs shall be maintained. The records shall include identification of equipment, date and time of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-7-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

LIMESTONE/LIME RECEIVING AND STORAGE TO A 25 TON STORAGE SILO VENTED TO A DUST COLLECTOR

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the dust collector serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Limestone/Lime shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The pneumatic transfer components and connections shall be totally dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The storage silo shall be totally dust tight and vented only through the dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of lime/limestone received shall not exceed 25 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration shall not exceed 0.0049 pounds per ton of lime/limestone received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of lime/limestone received shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Visible emissions from the dust collector serving the storage silo shall be inspected annually 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, 9.3.2] Federally Enforceable Through Title V Permit
14. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



15. 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, 9.3.2] Federally Enforceable Through Title V Permit
16. 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, 9.3.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-8-3

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS

## PERMIT UNIT REQUIREMENTS

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1. All haul roads and other roadways traversed by mobile equipment and/or motor vehicles shall be adequately moistened with water at such a frequency as required to prevent visible emissions equal to or in excess of 20% opacity from such roads. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Water all unpaved roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Fugitive particulate matter emissions generated during the unloading of trucks shall be minimized by a wet dust suppression system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Spray nozzles shall be located around the Truck Unloading Discharge area. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The wet dust suppression system shall be automatically activated as the truck unloading operation begins. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The amount of fuel material received shall not exceed 1,530 dry tons in any one day. A dry ton is the weight of the biomass fuel with a moisture content of less than 30%. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The PM10 emission concentration shall not exceed 0.0018 pounds per dry ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The permittee shall maintain a daily log of all fuel material received. The log shall indicate the amount of fuel received in dry tons, the type of fuel, and the location from which the fuel was obtained. [District NSR Rule] Federally Enforceable Through Title V Permit
9. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation  $E=3.59xP^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31xP^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
11. Wet dust suppression system shall be inspected weekly and maintained in a good operating condition. Records of system maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-9-2

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

MAGNETEK (MODEL RD 630) 50 KW EMERGENCY GENERATOR SERVED BY A PERKINS 89.2 HP DIESEL FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH AN ENGELHARD 5DVC CATALYTIC CONVERTER

## PERMIT UNIT REQUIREMENTS

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1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rules 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., 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. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701 and 4702, 6.2.3, and 17 CCR 93115 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
8. This engine shall be operated using only CARB certified diesel fuel. [17 CCR 93115, Rule 404 (Madera), 406 (Fresno) and Rule 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
12. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
13. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7.2] Federally Enforceable Through Title V Permit
14. During periods of maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702, 5.7.3] Federally Enforceable Through Title V Permit
15. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-12-4

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

RECEIVING AND STORAGE OPERATION USING 2020 CUBIC FOOT SILO SERVED BY AN ALANCO ENVIRONMENTAL MODEL 16AVS6 BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. This silo shall be used to store an absorbent material such as sodium carbonate, sodium bicarbonate, or other similar (non-HAP) material for use as a flue gas conditioner prior to the electrostatic precipitator. The material shall not contain any hazardous air pollutant (HAP). The most recent product data sheets or MSDSs shall be kept on-site and shall be presented to the District upon request. [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.0] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of material received shall not exceed 48 tons in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0049 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the amount of material received into the storage silo shall be maintained and updated daily. [District NSR and 1070 Rules] Federally Enforceable Through Title V Permit
11. Visible emissions shall be inspected annual 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, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. 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, 9.3.2] Federally Enforceable Through Title V Permit
14. 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, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1026-13-0

**EXPIRATION DATE:** 07/31/2010

**EQUIPMENT DESCRIPTION:**

15,000 GALLONS PER MINUTE ECODYNE COOLING MODEL 02CFF-0707, 2 CELL (EACH 42 FT X 42 FT), COOLING TOWER EQUIPPED WITH BRENTWOOD INDUSTRIES MODEL CDX-150 "ISOMETRIC" DRIFT ELIMINATOR

## PERMIT UNIT REQUIREMENTS

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1. 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
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT C

Detailed Facility List

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Detailed Facility Report  
For Facility 1026  
Sorted by Facility Number and Permit Number

THERMAL ENERGY DEV PARTNERSHIP LP 14800 W SCHULTE RD TRACY, CA 95377	FAC # STATUS: TELEPHONE:	N 1026 A	TYPE: TOXIC ID:	TitleV 21283	EXPIRE ON: AREA: INSP. DATE:	07/31/2010 4 / 08/12
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1026-1-10	20,500 kW	3020-08A F	1	8,171.00	8,171.00	A	BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR
N-1026-2-2	196 H.P.	3020-10 B	1	117.00	117.00	A	EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP
N-1026-3-0	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	D	FUEL HOG (CONSOLIDATE WITH 5-2)
N-1026-4-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	ASH AND FUEL STORAGE AREA
N-1026-5-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	PRIMARY FUEL HANDLING SYSTEM CONSISTING OF TWO RECLAIM AND BLENDING AREAS, CONVEYING TO A DISK SCREEN OR DIVERTED TO A HOG FOR CHIP SIZING, BULK CONVEYOR, FUEL INFEED CONVEYOR, DISTRIBUTION CONVEYOR, THREE METERING BINS, OVERFEED CONVEYOR. SECONDARY FUEL HANDLING SYSTEM CONSISTS OF A RECLAIM AND MIXING AREA, AND A SECONDARY INFEED CONVEYOR SERVING THE DISTRIBUTION CONVEYOR. ALTERNATE BIOMASS FUEL HANDLING SYSTEM CONSISTING OF A 10 CUBIC YARD FEED HOPPER AND AN ENCLOSED FEED CONVEYOR WITH AN ENCLOSED TRANSFER POINT SERVING THE PRIMARY FUEL HANDLING SYSTEM.
N-1026-6-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	FLYASH HANDLING SYSTEM FROM THE BOILER, THE MULTI-CLONES, AND THE ELECTROSTATIC PRECIPITATOR VIA ENCLOSED CONVEYORS TO A 550 CF ASH HOPPER. ASH CONDITIONER ADDITIVE RECEIVING AND STORAGE SYSTEM. THE ASH HOPPER SERVES AN ASH MIXER AND A TRUCK LOADOUT SPOUT
N-1026-7-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	LIMESTONE/LIME RECEIVING AND STORAGE TO A 25 TON STORAGE SILO VENTED TO A DUST COLLECTOR
N-1026-8-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS
N-1026-9-2	89.2 HP	3020-10 A	1	80.00	80.00	A	MAGNETEK (MODEL RD 630) 50 KW EMERGENCY GENERATOR SERVED BY A PERKINS 89.2 HP DIESEL FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH AN ENGELHARD 5DVC CATALYTIC CONVERTER
N-1026-12-4	Component: Power Generation Plant	999-99	1	0.00	0.00	A	RECEIVING AND STORAGE OPERATION USING 2020 CUBIC FOOT SILO SERVED BY AN ALANCO ENVIRONMENTAL MODEL 16AVS6 BIN VENT FILTER
N-1026-13-0	Component of an Electric Generation Plant	999-99	1	0.00	0.00	A	15,000 GALLONS PER MINUTE ECODYNE COOLING MODEL 02CFF-0707, 2 CELL (EACH 42 FT X 42 FT), COOLING TOWER EQUIPPED WITH BRENTWOOD INDUSTRIES MODEL CDX-150 "ISOMETRIC" DRIFT ELIMINATOR

Number of Facilities Reported: 1

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# ATTACHMENT D

Stringency Analysis for District Rule 4601

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**Stringency Comparison of District Rule 4601 Non-SIP Version (12/17/09) to Current SIP Version (10/31/01)**

<b>Requirement Category</b>	<b>SIP Version of Rule 4601 (10/31/01)</b>	<b>Non-SIP Version of Rule 4601 (12/17/09)</b>	<b>Conclusion</b>
<b>2.0 Applicability</b>	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures any architectural coating for use within the District.	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	No change in the applicability, therefore, non-SIP version of rule is as stringent as SIP version.
<b>4.0 Exemptions</b>	The provisions of this rule shall not apply to: 4.1 Any architectural coating that is sold or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging. 4.2 Any architectural coating that is sold in a containers with a volume of one liter (1.057 quarts) or less. 4.3 Any aerosol coating product.	4.1 The provisions of this rule shall not apply to: 4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging. 4.1.2 Any aerosol coating product. 4.2 With the exception of Section 6.2, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less.	The only change is to require reporting requirements as discussed in Section 6.2 of the non-SIP approved version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
<b>5.0 Requirements</b>	<b>Note: Section 5.0 requirements refer to Table of Standards, Table of Standards 1, and Table of Standards 2. These tables are included as Attachment X.</b>		
	5.1 VOC Content Limits: Except as provided in Sections 5.2, 5.3, 5.8 and 8.0, no person shall; 5.1.1 manufacture, blend, or repackage for sale within the District; 5.1.2 supply, sell, or offer for sale within the district; 5.1.3 solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards, after the specified effective date in the Table of Standards.	5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall: manufacture, blend, or repackage for use within the District; or supply, sell, or offer for sale within the District; or solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.	Sections 5.8 and 8.0 of the SIP version are not included in the non-SIP version. As discussed in corresponding sections the non-SIP version is more stringent. The Table of Standards and Table of Standards 1 have the same VOC limits. Table of Standard 2 is more stringent as discussed below. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
	5.2 Most Restrictive VOC Limit: If anywhere on the container of any architectural coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf, any representation is made that indicates that the coating meets the definition of or is recommended for use for more than one of the coating categories listed in the Table of Standards, then the most restrictive VOC content limit shall apply. This provision does not apply to the following coating categories: 5.2.1 Lacquer coatings (including lacquer sanding sealers) 5.2.2 Metallic pigmented coatings 5.2.3 Shellacs 5.2.4 Fire-retardant coatings 5.2.5 Pretreatment wash primers 5.2.6 Industrial maintenance coatings 5.2.7 Low-solids coatings	5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, Nonflat, or Nonflat – High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2. 5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.3.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply. 5.2.2 Effective on and after January 1, 2011, with the exception of the	The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	5.2.8 Wood preservatives 5.2.9 High temperature coatings 5.2.10 Temperature-indicator safety coatings 5.2.11 Antenna coatings 5.2.12 Antifouling coatings 5.2.13 Flow coatings 5.2.14 Bituminous roof primers 5.2.15 Specialty primers, sealers and undercoaters	specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply. 5.2.3 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf. 5.2.3.1 Lacquer coatings (including lacquer sanding sealers) 5.2.3.2 Metallic pigmented coatings 5.2.3.3 Shellacs 5.2.3.4 Fire-retardant coatings 5.2.3.5 Pretreatment wash primers 5.2.3.6 Industrial maintenance coatings 5.2.3.7 Low-solids coatings 5.2.3.8 Wood preservatives 5.2.3.9 High temperature coatings 5.2.3.10 Temperature-indicator safety coatings 5.2.3.11 Antenna coatings 5.2.3.12 Antifouling coatings 5.2.3.13 Flow coatings 5.2.3.14 Bituminous roof primers 5.2.3.15 Specialty primers, sealers and undercoaters 5.2.3.16 Aluminum roof coatings 5.2.3.17 Zinc-rich primers 5.2.3.18 Wood Coatings	
	5.3 Sell-Through of Coatings: 5.3.1 A coating manufactured prior to the January 1, 2003 or January 1, 2004 effective date specified for that coating in the Table of Standards may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1. 5.3.2 A coating included in an approved Averaging Program that does not comply with the specified limit in the	5.3 Sell-Through of Coatings: . A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.	<b>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Section 5.3.2 was removed it is no longer applicable in the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</b>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>Table of Standards may be sold, supplied, or offered for sale for up to three years after the end of the compliance period specified in the approved Averaging Program. In addition, such a coating may be applied at any time, both during and after the compliance period. This Section 5.3.2 does not apply to any coating that does not display on the container either the statement: "This product is subject to architectural coatings averaging provisions in California" or a substitute symbol specified by the Executive Officer of the California Air Resources Board (ARB). This Section 5.3.2 shall remain in effect until January 1, 2008.</p>		
	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC containing materials used for thinning and cleanup shall also be closed when not in use.</p>	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.</p>	<p>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</p>
	<p>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards.</p>	<p>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.6 Rust Preventative Coatings: Effective January 1, 2004, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards.</p>	<p>5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards 1.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.7 Coatings Not Listed in the Table of Standards: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards, the VOC content limit shall be determined by classifying the coating as a flat coating or a nonflat coating, based on its gloss, as defined in Sections 3.21, 3.36 and 3.37 and the corresponding flat or nonflat VOC limit shall apply.</p>	<p>5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat – High Gloss coating, based on its gloss, and the corresponding Flat, Nonflat, or Nonflat – High Gloss VOC limit in the Table of Standards 1 or the Table of Standards 2 shall apply.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.8 Lacquers: Notwithstanding the provisions of Section 3.1, a person or facility may add up to 10 percent by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater</p>	<p>---</p>	<p>This section has been removed. The operation is required to meet the lacquer VOC limit regardless of</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	than 70 percent and temperature below 65°F, at the time of application, provided that the coating contains acetone and no more than 550 grams of VOC per liter of coating, less water and exempt compounds, prior to the addition of VOC.		temperature and humidity. Therefore, non-SIP version of rule is as stringent as SIP version
	5.9 Averaging Compliance Option: On or after January 1, 2003, in lieu of compliance with the specified limits in The Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; bituminous roof coatings; rust preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in Section 8.0, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section 5.9 and Section 8.0 shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.	---	This section is removed from the non-SIP version, it is no longer applicable. Therefore, non-SIP version of rule is as stringent as SIP version.
	---	5.8 Prior to January 1, 2011, any coating that meets a definition in Section 3.0 for a coating category listed in the Table of Standards 2 and complies with the applicable VOC limit in the Table of Standards 2 and with Sections 5.2 and 6.1 (including those provision of Section 6.1 otherwise effective on January 1, 2011) shall be considered in compliance with this rule.	Table of Standards 2 is more stringent than the VOC limits of Table of Standards in the SIP-Approved version. Therefore, non-SIP version of rule is as stringent as SIP version.
	Table of Standards (See Attachment X for Table)	Table of Standards 1 (Effective through 12/31/10) (See Attachment X for Table)	The non-SIP rule requirements are the same as the Table of Standards in the SIP approved rule, except Table of Standards 1 expires at which time Table of Standards 2 is in effect. As discussed below these standards are more stringent. Therefore, non-SIP version of rule is as stringent as SIP version.
		Table of Standards 2 (Effective on and after 1/1/11) (See Attachment X for Table)	The requirements of Table of Standards 2 are more stringent than the Table of Standards in the SIP rule. Therefore, non-SIP version of rule is as stringent as SIP version.
<b>6.0 Administrative Requirements</b>	6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections	6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the	The non-SIP approved rule contain sections listed in the SIP rule plus

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.1.1 through 6.1.9 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display either the maximum or actual VOC content of the coating, as supplied, including the maximum thinning as recommended by the manufacturer. VOC content shall be displayed in grams of VOC per liter of coating. VOC content displayed shall be calculated using product formulation data, or shall be determined using the test methods in Section</p> <p>6.3.1. The equations in Sections 3.25 or 3.26, as appropriate, shall be used to calculate VOC content.</p> <p>6.1.4 Industrial Maintenance Coatings: In addition to the information specified in Sections 6.1.1, 6.1.2 and 6.1.3, each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.4.1 through 6.1.4.3.</p> <p>6.1.4.1 "For industrial use only"</p> <p>6.1.4.2 "For professional use only"</p> <p>6.1.4.3 "Not for residential use" or "Not intended for residential use"</p> <p>6.1.5 Clear Brushing Lacquers: Effective January 1, 2003, the labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed."</p> <p>6.1.6 Rust Preventative Coatings: Effective January 1, 2003, the labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only"</p> <p>6.1.7 Specialty Primers, Sealers and Undercoaters: Effective January 1, 2003, the labels of all specialty primers, sealers and undercoaters shall prominently</p>	<p>information listed in Sections 6.1.1 through 6.1.14 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.1.4 Faux Finishing Coatings: Effective January 1, 2011, the labels of all clear topcoat Faux Finishing coatings shall prominently display the statement "This product can only be sold or used as part of a Faux Finishing coating system".</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of</p>	<p>additional requirements not found in the SIP version. Therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>display one or more of the descriptions listed in Section</p> <p>6.1.7.1 through 6.1.7.5.</p> <p>6.1.7.1 For blocking stains.</p> <p>6.1.7.2 For fire-damaged substrates.</p> <p>6.1.7.3 For smoke-damaged substrates.</p> <p>6.1.7.4 For water-damaged substrates.</p> <p>6.1.7.5 For excessively chalky substrates.</p> <p>6.1.8 Quick Dry Enamels: Effective January 1, 2003, the labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time.</p> <p>6.1.9 Non-flat – High Gloss Coatings: Effective January 1, 2003, the labels of all non-flat – high gloss coatings shall prominently display the words "High Gloss".</p>	<p>the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 "For industrial use only"</p> <p>6.1.5.2 "For professional use only"</p> <p>6.1.5.3 "Not for residential use" or "Not intended for residential use"</p> <p>6.1.6 Clear Brushing Lacquers: The labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed." (Category deleted effective January 1, 2011.)</p> <p>6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only".</p> <p>6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.</p> <p>6.1.8.1 For fire-damaged substrates.</p> <p>6.1.8.2 For smoke-damaged substrates.</p> <p>6.1.8.3 For water-damaged substrates.</p> <p>6.1.8.4 For excessively chalky substrates.</p> <p>6.1.8.5 For blocking stains.</p> <p>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time. (Category deleted effective January 1, 2011.)</p> <p>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2011, the labels of all Reactive Penetrating Sealers shall prominently display the statement "Reactive Penetrating Sealer."</p> <p>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement "Stone Consolidant - For Professional Use Only."</p> <p>6.1.12 Nonflat– High Gloss Coatings: The labels of all Nonflat – high gloss coatings shall prominently display the words "High Gloss."</p>	



Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement "For Wood Substrates Only."</p> <p>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3.</p> <p>6.1.14.1 "For industrial use only"</p> <p>6.1.14.2 "For professional use only"</p> <p>6.1.14.3 "Not for residential use" or "Not intended for residential use"</p>	
	<p>6.2 Reporting Requirements</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p>	<p>6.2 Reporting Requirements</p> <p>The reporting requirements specified in Sections 6.2.1 through 6.2.6 shall apply until December 31, 2010.</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an</p>	<p><b>Until December 31, 2010 both versions of the rule have the same reporting requirements. After that date the non-SIP approved rule includes very specific information to be kept and is required for all architectural coatings. Therefore, non-SIP version of rule is as stringent as SIP version.</b></p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.2.4.2 the product category listed in the Table of Standards to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p>	<p>annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p> <p>6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales.</p> <p>6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 to 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17,</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.7.1 through 6.2.7.14:</p> <p>6.2.7.1 the name and mailing address of the manufacturer;</p> <p>6.2.7.2 the name, address and telephone number of a contact person;</p> <p>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.7.4 whether the product is marketed for interior or exterior use or both;</p> <p>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.7.10 description of resin or binder in the product;</p> <p>6.2.7.11 whether the coating is a single-component or multi-component product;</p> <p>6.2.7.12 the density of the product in pounds per gallon;</p> <p>6.2.7.13 the percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.7.14 the percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.3 Test Methods</p> <p>6.3.1 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.26 and 3.27, the reference method for VOC content is U.S. EPA Method 24, except as provided in Sections 6.3.2 and 6.3.15. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996), incorporated by reference in Section 6.3.14. The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised August 1996), incorporated by reference in Section 6.3.12. To determine the VOC content of a coating, the manufacturer may use U.S. EPA Method 24, or an alternative method as provided in Section 6.3.2, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of a Method 24 test and any other means for determining VOC content, the Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.2. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct a Method 24 analysis.</p> <p>6.3.2 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.1, after review and approved in writing by the staffs of the District, the ARB and the U.S. EPA, may also be used. 6.3.3 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of U.S. EPA Method 24 (40 CFR 59, subpart D, Appendix A), incorporated by reference in Section 6.3.15. This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.4 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM Designation E 84-99, "Standard Test Method for Surface Burning Characteristics of Building Materials"(see Section 3, Fire-Retardant Coating).</p> <p>6.3.5 Fire Resistance Rating: The fire</p>	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating shall be determined as defined in Section 3.77, 3.78, or 3.79 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.77 and 3.79, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.16. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.3, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24</p>	<p>The non-SIP version includes all the requirements of the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>resistance rating of a fire-resistive coating shall be determined by ASTM Designation E 119-98, "Standard Test Methods for Fire Tests of Building Construction Materials"(see Section 3, Fire-Resistive Coating).</p> <p>6.3.6 Gloss Determination: The gloss of a coating shall be determined by ASTM Designation D 523-89 (1999), "Standard Test Method for Specular Gloss"(see Section 3, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.7 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3, Metallic Pigmented Coating).</p> <p>6.3.8 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM Designation D 1613-96, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products"(see Section 3, Pre-Treatment Wash Primer).</p> <p>6.3.9 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM Designation D 1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quickdry enamel coating shall be determined by the Mechanical Test Method of ASTM Designation D 1640-95.</p> <p>6.3.10 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM Designation D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films"(see Section 3, Specialty Primer, Sealer and Undercoater).</p> <p>6.3.11 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.12 Exempt Compounds—</p>	<p>test results will govern, except when an alternative method is approved as specified in Section 6.3.3. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.4 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.5 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-07, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.6 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-07, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.7 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-89 (1999), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.8 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.9 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM D1613-06, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.13 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1996), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.14 VOC Content of Coatings: The VOC content of a coating shall be determined by U.S. EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings"(see Section 6.3.1).</p> <p>6.3.15 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 6.3.1).</p> <p>6.3.16 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998) (see Section 6.3.3).</p>	<p>6.3.10 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category deleted effective January 1, 2011.)</p> <p>6.3.11 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films"(see Section 3, Specialty Primer, Sealer and Undercoater). (Category deleted effective January 1, 2011.)</p> <p>6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1993), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of</i></p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p><i>Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.16 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i>.</p> <p>6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-04, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.19 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-02, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.21 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-07, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.22 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02e1, "Standard Test Method</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>for Evaluating Degree of Blistering of Paints".</p> <p>6.3.23 Waterproofing Membrane: Waterproofing membrane shall be tested by ASTM C836-06, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.24 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-00, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber" and ASTM D3274-95, "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation".</p> <p>6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.26 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-05, "Standard Test Method for Water Vapor Transmission of Materials".</p> <p>6.3.27 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.28 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01, "Standard Guide for Selection and Use of Stone Consolidants".</p>	
7.0 Compliance Schedule	Persons subject to this rule shall be in compliance with this rule by October 31, 2001.	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.
8.0 Averaging Compliance Option	8.1 On or after January 1, 2003, in lieu of compliance with the specified limits in the Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; rust		No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.



Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in this Section, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.</p> <p>Per Section 8.1, averaging is no longer applicable. Therefore, Section 8.2 through 8.14 are not listed.</p>		

District Rule 4601 was amended (12/17/2009). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule.