



JUL 24 2012

Larry W. Osborne
CRES Inc. dba Dinuba Energy
6929 Ave 430
Reedley, CA 93654

**Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # S-285
Project # S-1110665**


Dear Mr. Osborne:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for CRES Inc. dba Dinuba Energy for its 11.5 MW wood-fueled cogeneration facility located at 6929 Ave 430, Reedley, 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: Gurpreet Brar, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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



JUL 24 2012

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

**Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # S-285
Project # S-1110665**

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Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for CRES Inc. dba Dinuba Energy for its 11.5 MW wood-fueled cogeneration facility located at 6929 Ave 430, Reedley, 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.

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JUL 24 2012

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

**Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # S-285
Project # S-1110665**

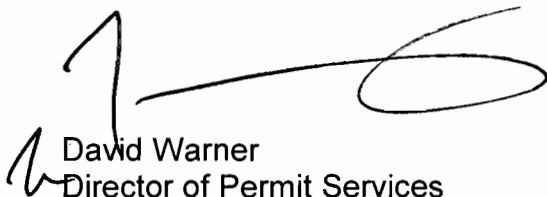
Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for CRES Inc. dba Dinuba Energy for its 11.5 MW wood-fueled cogeneration facility located at 6929 Ave 430, Reedley, California.

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

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

Sincerely,



David Warner
Director of Permit Services

Attachments

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Visalia Times-Delta

**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 CRES Inc. dba Dinuba Energy for its 11.5 MW wood-fueled cogeneration facility located at 6929 Ave 430, Reedley, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1110665, is available for public inspection at 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
CRES Inc. DBA Dinuba Energy
S-285**

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TITLE V PERMIT RENEWAL EVALUATION
11.5 MW Wood-Fueled Cogeneration Facility

Engineer: Gurpreet Brar
Date: May 30, 2012

Facility Number: S-285
Facility Name: CRES Inc. dba Dinuba Energy
Mailing Address: 6929 Ave 430
Reedley, CA 93654

Contact Name: Larry W. Osborne
Phone: (559) 318-0609

Responsible Official: John Richardson
Title: Vice-President

Project # : S-1110665
Deemed Complete: March 15, 2011

I. PROPOSAL

CRES Inc. dba Dinuba Energy was issued a Title V permit on July 31, 2007. 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

CRES Inc. dba Dinuba Energy is located at 6929 Ave 430, Reedley in Tulare County, CA.

III. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

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

V. SCOPE OF EPA AND PUBLIC REVIEW

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

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions
(amended December 19, 2002 ⇒ amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended September 21, 2006 ⇒ amended April 21, 2011)
- District Rule 4101, Visible Emissions
(amended November 15, 2001 ⇒ amended February 17, 2005)
- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators and Process heaters
(amended October 19, 1995 ⇒ amended December 15, 2011)
- District Rule 4601, Architectural Coatings
(amended October 31, 2001 ⇒ amended December 17, 2009)

- District Rule 8011, General Requirements
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8031, Bulk Materials
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8041, Carryout and Trackout
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8051, Open Areas
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial–Commercial–Institutional Steam Generating Units
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
(amended July 20, 2004)
- 40 CFR Part 82, Subpart B and F, Stratospheric Ozone

B. Rules Added

Following rules are that are applicable to operation of this facility has been adopted since issuance of the initial Title V permit.

- 40 CFR Part 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

C. Rules Not Updated

- District Rule 1070, Inspections, (Amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (Non-SIP replacement for Kern County Rule 111) (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4001, New Source Performance Standards (amended April 14, 1999)
- District Rule 4002, National Emission Standards for Hazardous Air Pollutants (amended May 20, 2004)
- 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 4801, Sulfur Compounds (Non-SIP replacement for Kern County Rule 108.1) (amended December 17, 1992)
- 40 CFR Part 60, Subpart A, Monitoring Requirements
- 40 CFR Part 64, Compliance Assurance Monitoring
- 40 CFR Part 68, Chemical Accident Prevention Provisions

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits.

The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

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

A. Rules Added

None

B. Rules Not Updated

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

Compliance with the emission requirements of this rule is demonstrated with the permit conditions listed in the table below.

- Condition 41 on facility wide permit S-285-0-2 assures compliance with the requirements of this rule.
- Condition 23 to 28, 32 and 46 to 49 on proposed permits S-285-2-9 assures compliance with the requirements of this rule.

VIII. PERMIT REQUIREMENTS

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

A. District Rule 2020 - Exemptions

District Rule 2020 lists equipments 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.

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

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.24.1, 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 to the permits being renewed as a part of this project.

C. District Rule 2520 - Federally Mandated Operating

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

D. District Rule 4101 - Visible Emissions

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 on facility wide permit S-285-0-2 assures compliance with the requirements of this rule.

E. District Rule 4352 - Solid Fuel Fired Boilers, Steam Generators and Process Heaters

This analysis is based on the latest revision (December 15, 2011) which has not been SIP approved. However, this rule only impacts the boiler under the permit unit S-285-2 at this facility, and the requirements of this rule are identical to the latest SIP approved revision (May 18, 2006) until December 31, 2012. The amendment to SIP approved version of rule includes the removal of Section 5.4 and 6.1, and addition of more stringent NOx limits to Section 5.1, Table 1 that is applicable on and after January 1, 2013. The NOx emission limits on draft permits S-285-2 meet the NOx limit requirements of latest revision (December 15, 2011) and SIP approved version of this rule as shown in Table 1 as given below. Therefore, compliance with the latest revision ensures compliance with the SIP approved May 18, 2006 revision and is as discussed below. No further stringency analysis is required.

This rule limits the emissions of oxides of nitrogen (NOx) and carbon monoxide (CO) from solid fuel fired boilers, steam generators and process heaters.

Section 5.1 states that the owner/operator of a boiler, steam generator or process heater shall not operate such a unit in a manner that results in NOx and CO emissions exceeding the limits specified in Table 1. The emission limits measured in parts per million by volume (ppmv) are referenced at dry stack gas conditions and shall be corrected to the applicable percent O₂ or CO₂ specified in Table 1 in accordance with EPA Method 19.

Table 1 - NOx and CO Emission Limits

Fuel Type	Emission Limits effective until December 31, 2012		Emission Limits effective on and after January 1, 2013	
	NOx Limit	CO Limit	NOx Limit	CO Limit
Municipal Solid Waste	200 ppmv corrected to 12% CO ₂	400 ppmv corrected to 3% O ₂	165 ppmv corrected to 12% CO ₂	400 ppmv corrected to 3% O ₂
Biomass	115 ppmv corrected to 3% O ₂		90 ppmv corrected to 3% O ₂	
All Others	115 ppmv corrected to 3% O ₂		65 ppmv corrected to 3% O ₂	

Section 5.3 states that the applicable emission limits of Section 5.1 shall not apply during start-up or shutdown provided an operator complies with the requirements specified below:

- Section 5.3.1 requires that the duration of each shut down shall not exceed twelve (12) hours, except as provided in Section 5.3.4
- Section 5.3.2 requires that the duration of each start-up shall not exceed 96 hours, except as provided in Section 5.3.4. If curing of the refractory is required after a modification to the unit is made, the duration of start-up shall not exceed 192 hours, except as provided in Section 5.3.4.
- Section 5.3.3 requires that the emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up or shutdown.

Section 5.4 states that the owner/operator of any unit using ammonia injection as a NOx control technique, shall operate a Continuous Emissions Monitoring system (CEM) to monitor and record NOx concentrations, CO2 or O2 concentrations, as well as the NOx emission rate. Continuous Emission Monitoring systems shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F.

Section 6.1 states that the owner/operator of any unit subject to the requirements of this rule shall maintain, on a monthly basis, an operating log for each unit that includes the following information:

- type and quantity of fuel used
- the higher heating value (hhv) of each fuel as determined by Section 6.3, or as certified by a third party fuel supplier

Section 6.1.2 requires that the records required by Section 6.2.1 shall be retained on site for a period of five years, and shall be made available to the APCO, ARB, and EPA upon request.

Section 6.2.1 requires that each unit subject to the requirements of this rule shall be tested at least once every twelve (12) months, to determine compliance with the applicable requirements of Section 5.0.

Section 6.2.2 states that all emission measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate.

Section 6.2.3 states that the compliance determination shall not be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer.

Section 6.3.1 states that compliance with the requirements of Section 5.0 shall be determined in accordance with the following source test procedures unless otherwise approved by the APCO, ARB, and EPA:

- 6.3.1.1 Oxides of nitrogen (ppmv) – EPA Method 7E, or ARB Method 100.
- 6.3.1.2 Carbon monoxide (ppmv) - EPA Method 10, or ARB Method 100.
- 6.3.1.3 Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.
- 6.3.1.4 NOx emission rate (Heat input basis) - EPA Method 19.
- 6.3.1.5 Stack gas velocities - EPA Method 2.
- 6.3.1.6 Stack gas moisture content - EPA Method 4.
- 6.3.1.7 Solid fuel higher heating value (hmv) - ASTM Method D 2015-96, or
- 6.3.1.8 Solid fuel higher heating value (hmv) - ASTM Method E 711-87.
- 6.3.1.9 ASTM D 1826-94 or D 1945-96 in conjunction with ASTM D 3588-98 for gaseous fuels

S-285-2-9:

Condition 5, 6, 9 to 13, 15, 29, 30, 70 & 71 on the draft permit S-285-2-9 will ensure compliance with the requirements of this rule.

F. 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 rule was amended in February 17, 2005 but had not been SIP approved. The stringency analysis in Attachment D shows that the amended rule is as stringent as the SIP approved version of the rule that was adopted in October 31, 2001.

The following changes were included in the latest rule amendment that resulted in 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.

Conditions 23, 24 and 25 of the facility wide requirements S-285-0-2 will assure compliance with the requirements of this rule.

H. District Rule 8011, General Requirements

The purpose of Regulation VIII (Fugitive PM₁₀ Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM₁₀) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM₁₀ Nonattainment Areas. These 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 the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

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

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

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

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

Condition 29 of the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

J. District Rule 8031, Bulk Materials

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

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

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

Condition 30 of the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

K. District Rule 8041, Carryout and Trackout

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

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

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

Condition 31 of the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

L. District Rule 8051, Open Areas

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

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

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

Condition 32 of the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

M. District Rule 8061, Paved and Unpaved Roads

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

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

Condition 33 of the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

N. District Rule 8071, Unpaved Vehicle/Equipment Traffic Area

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

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

Condition 34 of the facility-wide requirements S-285-0-2 will ensure compliance with these requirements.

O. 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial–Commercial–Institutional Steam Generating Units

11.5 MW Wood-Fired Cogeneration Facility (S-285-2-9):

The affected facility to which this subpart applies is each steam generating unit with a heat input greater than 100 MMBtu/hr that has commenced construction, modification, or reconstruction after June 19, 1984. This boiler is greater than 100 MMBtu/hr and was installed in 1985; therefore, is subject to the requirements of this Subpart.

§60.43b – Standard for Particulate Matter (PM)

Section 60.43b(c) requires that no owner or operator of an affected facility that combusts wood, or wood with other fuels, except coal, shall cause to be discharged from that affected facility any gases that contain particulate matter in excess of 43 ng/J (0.10 lb/million Btu) heat input if the affected facility has an annual capacity factor greater than 30 percent (0.30) for wood.

Sections 60.43b(f) and (g) require that no owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. The particulate matter and opacity standards apply at all times, except during periods of startup, shutdown or malfunction.

§60.44b – Standard for Nitrogen Oxides

Section 60.44b(d) requires that no owner or operator of an affected facility that simultaneously combusts natural gas with wood, municipal-type solid waste, or other solid fuel, except coal, shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides in excess of 130 ng/J (0.30 lb/million Btu) heat input unless the affected facility has an annual capacity factor for natural gas of 10 percent (0.10) or less and is subject to a federally enforceable requirement that limits operation of the affected facility to an annual capacity factor of 10 percent (0.10) or less for natural gas.

§60.46b – Compliance and performance test methods and procedures for particulate matter and nitrogen oxides

Section 60.46b(a) requires that particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction.

§60.48b – Emissions monitoring for particulate matter

Section 60.48b(a) and (c) require that the owner or operator of an affected facility subject to the opacity standard under §60.43b shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. The continuous monitoring system required shall be operated and data recorded during all periods of operation except for continuous monitoring system breakdowns and repairs.

Section 60.48b(e) states that the procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The affected facilities combusting coal, wood or municipal-type solid waste, the span value for a COMS shall be between 60 and 80 percent.

§60.49b –Reporting and Recordkeeping Requirements

Section 60.49b(d) requires that 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 natural gas and wood for 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.

Section 60.49b(h) requires that the owner or operator submit excess emission reports for any excess emissions which occurred during the reporting period.

- Conditions 54 to 62 of the requirements for this permit unit assure compliance with this rule.

P. 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

These regulations apply to demolition or renovation activity, as defined in 40 CFR 61.141. 40 CFR Section 61.150 of this Subpart was amended September 18, 2003, and condition 36 of S-285-0-2 assures compliance with the requirements.

Q. 40 CFR Part 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Section 63.11193 states you are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

Section 63.2 defines area source as any stationary source of hazardous air pollutants that is not a major source as defined in this part. Section 63.2 defines major source as any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants, unless the Administrator establishes a lesser quantity, or in the case of radionuclides, different criteria from those specified in this sentence.

This facility is an area source as it is not a major source of hazardous air pollutants. Therefore, the boiler listed under permit S-285-2-9 is subject to this subpart.

Section 63.11194(b) states an affected source is an existing source if you commenced construction or reconstruction of the affected source on or before June 4, 2010. The boiler listed under permit S-285-2-9 commenced construction prior to June 4, 2010 and therefore, is an existing source.

Section 63.11196 states (a) If you own or operate an existing affected boiler, you must achieve compliance with the applicable provisions in this subpart as specified in paragraphs (a)(1) through (3) of this section.

(1) If the existing affected boiler is subject to a work practice or management practice standard of a tuneup, you must achieve compliance with the work practice or management standard no later than March 21, 2012.

(2) If the existing affected boiler is subject to emission limits, you must achieve compliance with the emission limits no later than March 21, 2014.

(3) If the existing affected boiler is subject to the energy assessment requirement, you must achieve compliance with the energy assessment requirement no later than March 21, 2014.

Section 63.11201 states (a) You must comply with each emission limit specified in Table 1 to this subpart that applies to your boiler. (b) You must comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to this subpart that applies to your boiler. An energy assessment completed on or after January 1, 2008 that meets the requirements in Table 2 to this subpart satisfies the energy assessment portion of this requirement. (c) You must comply with each operating limit specified in Table 3 to this subpart that applies to your boiler. (d) These standards apply at all times.

The boiler listed under permit S-285-2-9 is subject to a work practice or management practice standard of a tune-up. Therefore, the following condition placed as condition #72 on the draft permit S-285-2-9 will ensure compliance:

- The permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b), and every two years thereafter. Permittee shall submit a signed statement of the Notification of Compliance Status report that a tune-up of the boiler was completed. [40 CFR 63.11214(b)]

The boiler listed under permit S-285-2-9 is an existing wood-fueled boiler and is not subject to emission limits, and therefore is not subject to Table 1 or 3. However, the boiler is subject to an energy assessment requirement. Therefore, the following condition placed as condition #73 on the draft permit S-285-2-9 will ensure compliance:

- By March 21, 2014, the permittee shall conduct a one-time energy assessment as described in 40 CFR 63, Subpart JJJJJJ, Table 2. Permittee shall submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed, and shall submit the energy assessment report upon request. [40 CFR 63.11214(c)]

Section 63.11205 states (a) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. The following condition on the draft permit S-285-2-9 placed as condition #38 will ensure compliance with this subpart:

- Electrostatic precipitator shall be equipped with an opacity continuous emissions monitor (CEM), which shall be operated in accordance with the requirements of 40 CFR, Part 51, Appendix P, and Part 60, Appendix B. [District Rule 1080 and 40 CFR 63.11205(a)]

Section 63.11214 states (c) If you own or operate an existing affected boiler with a heat input capacity of 10 million Btu per hour or greater, you must submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed and submit, upon request, the energy assessment report. The following condition will be placed on the draft permit S-285-2-9 as condition #74 to ensure compliance:

- Permittee shall submit the Notification of Compliance Status report by July 19, 2012. [40 CFR 63.11225(a)(4)]

Section 63.11223 states (a) For affected sources subject to the work practice standard or the management practices of a tune-up, you must conduct a biennial performance tune-up according to paragraphs (b) of this section and keep records as required in §63.11225(c) to demonstrate continuous compliance. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. (b) You must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (b)(1) through (7) of this section. (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shut down, but you must inspect each burner at least once every 36 months). (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available. (5) Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). (6) Maintain onsite and submit, if requested by the Administrator, biennial report containing the information in paragraphs (b)(6)(i) through (iii) of this section. (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler. (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (iii) The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler. (7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.

The following condition placed as condition #72 on the draft permit S-285-2-9 will ensure compliance:

- The permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b), and every two years thereafter. Permittee shall submit a signed statement of the Notification of Compliance Status report that a tune-up of the boiler was completed. [40 CFR 63.11214(b)]

Section 63.11225 states (a) You must submit the notifications specified in paragraphs (a)(1) through (a)(5) of this section to the delegated authority. (1) You must submit all of the notifications in §§63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply to you by the dates specified in those sections. (2) As specified in §63.9(b)(2), you must submit the Initial Notification no later than 120 calendar days after May 20, 2011 or within 120 days after the source becomes subject to the standard. (3) If you are required to conduct a performance stack test you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (4) You must submit the Notification of Compliance Status in accordance with §63.9(h) no later than 120 days after the applicable compliance date specified in §63.11196 unless you must conduct a performance stack test. If you must conduct a performance stack test, you must submit the Notification of Compliance Status within 60 days of completing the performance stack test. In addition to the information required in §63.9(h)(2), your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official: (i) "This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler." (ii) "This facility has had an energy assessment performed according to §63.11214(c)." (iii) For an owner or operator that installs bag leak detection systems: "This facility has prepared a bag leak detection system monitoring plan in accordance with §63.11224 and will operate each bag leak detection system according to the plan." (iv) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."

The following condition placed as condition #74 on the draft permit S-285-2-9 will ensure compliance:

- Permittee shall submit the Notification of Compliance Status report by July 19, 2012. [40 CFR 63.11225(a)(4)]

Therefore, compliance with the requirements of the subpart is expected.

Q. 40 CFR Part 64, Compliance Assurance Monitoring

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

1. the unit must have 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 a major source threshold

Pollutant	Major Source Threshold (lb/year)
NO _x	20,000
SO _x	140,000
PM ₁₀	140,000
CO	200,000
VOC	20,000

11.5 MW Wood-Fired Cogeneration Facility (S-285-2-9):

- 1) This unit contains emission limits for NO_x, SO_x, PM₁₀, CO and VOC.
- 2) The unit is equipped with add-on controls, FGR and ammonia injection, for NO_x control and a two cell electrostatic precipitator to control PM₁₀ emissions. Therefore, it is subject to CAM for NO_x and PM₁₀ emissions. This permit unit does not have add-on controls for SO_x, CO, and VOC. Therefore, this permit unit is not subject to CAM for SO_x, CO, and VOC.

3) **NO_x:**

Per 40 CFR 64.2(b)(vi), emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in §64.1, are not required to comply with CAM requirements. A "continuous compliance determination method" means a method, specified by the applicable standard or an applicable permit condition, which: (1) is used to determine compliance with an emission limitation or standard on a continuous basis, consistent with the averaging period established for the emission limitation or standard; and (2) provides data either in units of the standard or correlated directly with the compliance limit.

Therefore, this permit unit is exempt from CAM requirements for NO_x because the facility is already required to calibrate, maintain, and operate CEMS for this pollutant.

PM₁₀:

PM₁₀ emissions from this unit are controlled by two cell electrostatic precipitator with control efficiency of 90%.

Therefore, the uncontrolled PM₁₀ emissions are calculated as follows:

$$\begin{aligned} \text{Annual Uncontrolled PE} &= 22.71 \text{ tons/yr} \times 2,000 \text{ lb/ton} \times 1/(1-0.90) \\ &= \mathbf{454,200 \text{ lb- PM}_{10}/\text{year}} \end{aligned}$$

This permit is subject to CAM for PM₁₀ emissions since the pre-control PM₁₀ potential to emit is greater than the major source threshold of 140,000 pounds PM₁₀/year as shown above.

In order to determine if a 15-minute monitoring interval is required, we will determine if post-control emissions also exceed the Major Source threshold for PM₁₀ emissions:

$$\begin{aligned} \text{Annual Controlled PE} &= 5.76 \text{ lb/hr} \times 7,884 \text{ hrs/yr} \\ &= \mathbf{45,412 \text{ lb/year}} \end{aligned}$$

Since the post-control annual emissions do not exceed the Major Source threshold for PM₁₀ of 140,000 lb/year, a once-daily monitoring interval is sufficient to determine compliance with CAM.

The CAM requirements on the current permit will be carried over to proposed permit S-285-2-9. CAM is satisfied for this unit by daily recording of the electrostatic precipitator voltage and current readings and comparison with the acceptable range of current and voltage levels established during the most recent annual PM₁₀ source test.

Conditions 4 to 7, 29, 42, 43, 44, 63 to 68, 39 and 41 on the proposed PTO ensure compliance.

Ash Collection System (S-285-3-2):

- 1) This unit does not have an emissions limit and add-on controls for the pollutants and therefore, is not subject to CAM.

Fuel Receiving and Unloading System (S-285-4-2):

- 1) This unit does not have an emissions limit and add-on controls for the pollutants and therefore, is not subject to CAM.

Fuel Handling System (S-285-7-2):

- 1) This unit does not have an emissions limit and add-on controls for the pollutants and therefore, is not subject to CAM.

620 hp Wood Waste Hammermill Hog Operation (S-285-9-2):

- 1) This unit has no NO_x, SO_x, CO or VOC emissions. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.
- 2) This unit has a baghouse as an add-on control for PM₁₀ emissions. Therefore, it is subject to CAM for PM₁₀ emissions.
- 3) The particulate emissions factor for wood grinding is same as the emission factor for "Log Debarking" from a previous edition of AP-42, Table 10.3-1 of (0.024 lb/ton) and will be used with the throughput quantity of wood processed, as provided by the applicant to calculate uncontrolled emissions.

$$\begin{aligned} PE_{\text{uncontrolled}} &= 0.024 \text{ lb-PM}_{10}/\text{ton} \times 125,000 \text{ tons/year} \\ &= 3,000 \text{ lb/year} \end{aligned}$$

This permit is not subject to CAM for PM₁₀ emissions since the pre-control PM₁₀ potential to emit as given above is less than the major source threshold of 140,000 pounds PM₁₀/year.

Hammermill Fuel Screening System (S-285-10-3):

- 1) This unit contains emission limits for PM₁₀ emissions.
- 2) This unit has does not have add-on control for any pollutant and therefore, is not subject to CAM.

R. 40 CFR Part 82, Subparts B and F, Stratospheric Ozone

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). Sections of this regulation were amended in 2004 and 2008, and conditions 27 and 28 of S-285-0-2 assure compliance with the requirements.

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 is not requesting to use any model general permit templates for this Title V renewal project.

B. Obsolete Permit Shields From Existing Permit Requirements

There is no change to the existing permit shields already included in their Title V operating permit. Therefore, all of the existing permit shields will be maintained on the revised permit for this renewal project.

X. PERMIT CONDITIONS

See Attachment A – Draft Title V Operating Permits.

XI. ATTACHMENTS

- A. Draft Title V Operating Permits
- B. Previous Title V Operating Permits
- C. Detailed Facility List
- D. District Rule 4601 Stringency Analysis
- E. Table of Standards in Rule 4601

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X. PERMIT CONDITIONS

See Attachment A – Draft Title V Operating Permits.

XI. ATTACHMENTS

- A. Draft Title V Operating Permits
- B. Previous Title V Operating Permits
- C. Detailed Facility List
- D. District Rule 4601 Stringency Analysis
- E. Table of Standards in Rule 4601

ATTACHMENT A

Draft Title V Operating Permits

San Joaquin Valley Air Pollution Control District

FACILITY: S-285-0-2

EXPIRATION DATE: 05/31/2011

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: CRES INC DBA DINUBA ENERGY
Location: 6929 AVENUE 430, REEDLEY, CA 93654
S-285-0-2 : May 29 2012 11:32AM - BRARG

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
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 31 of each year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
44. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$; P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$; 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: S-285-2-9

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:

11.5 MW WOOD-FUELED COGENERATION FACILITY INCLUDING TRAVELING GRATE BOILER WITH FLUE GAS RECIRCULATION (FGR), AMMONIA INJECTION, STEAM TURBINE/GENERATOR, NATURAL GAS FIRED AUXILIARY BURNER, MULTICLONE DUST COLLECTOR, AND SINGLE CHAMBER TWO CELL ELECTROSTATIC PRECIPITATOR

PERMIT UNIT REQUIREMENTS

1. Ammonia injection system shall be operated and maintained in accordance with manufacturers specification. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Electrostatic precipitator shall be operated and maintained in accordance with manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Electrostatic precipitator shall be equipped with an automatic rapping system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Combustion system shall be equipped with continuous emissions monitors (CEM) for NO_x, CO, CO₂, O₂, volumetric flowrate, and opacity. [District NSR Rule and 40 CFR part 64] Federally Enforceable Through Title V Permit
5. Continuous emissions monitors shall be operated in accordance with the requirements of 40 CFR, Part 60, Appendix B, Performance Specifications 1, 2, 3, 4, and CFR Part 60, Appendix F. [District Rules 1080, 4352, and 40 CFR part 64] Federally Enforceable Through Title V Permit
6. The owner/operator shall operate, maintain and calibrate Continuous Emission Monitoring system pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [40 CFR Part 64, District Rule 4352, 5.4] Federally Enforceable Through Title V Permit
7. Continuous emissions monitor for flue gas volume flow-rate shall meet EPA monitoring performance specifications appearing in 40 CFR, Part 52, Appendix E. [District Rules 4001, 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
8. Ammonia shall be injected into boiler at a rate that results in compliance with the NO_x emissions limit. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Shutdown is defined as the period of time during which a unit is taken from operational to nonoperational status by allowing it to cool down from its operating temperature and pressure to an ambient temperature, or to a hot standby condition. The duration of each shutdown shall not exceed 12 hours. [District Rule 4352]
10. Start-up is defined as the period of time during which a unit is heated to the operating temperature and pressure from a shutdown status or hot standby condition. The duration of each start-up shall not exceed 96 hours. [District Rule 4352]
11. Hot Standby Condition is defined as a condition in which all fuel feed has been curtailed and the boiler is secured at a temperature greater than the current ambient temperature. [District Rule 4352]
12. During startup and shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rule 4352] Federally Enforceable Through Title V Permit
13. Nitrogen oxide emissions (as NO₂) shall not exceed 0.09 lbs/MMBtu based on a 24 hour average, except during periods of startup and shutdown. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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14. Nitrogen oxide emissions (as NO₂) shall not exceed 17.87 lb/hr and 70.44 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Carbon monoxide (CO) emissions shall not exceed 400 ppmv @ 3% O₂, except during periods of startup and shutdown. [District Rule 4352] Federally Enforceable Through Title V Permit
16. Carbon monoxide (CO) emissions shall not exceed 99.3 lbs/hr and 249 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
17. PM₁₀ emissions shall not exceed 0.0144 grains/dscf corrected to 12% CO₂, 5.76 lbs/hr and 22.71 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Volatile organic compound emissions shall not exceed 13.30 lbs/hr and 52.4 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Sulfur oxide emissions (as SO₂) shall not exceed 9.90 lbs/hr and 39.1 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Specific Limiting Condition (SLC) limiting the annual emissions from the boiler/generator listed under permit S-285-2 and the transportable IC engine listed under C-799-8, when the engine is operated at facility S-285, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 70.44 tons-NO_x/year, 39.1 tons-SO_x/year, 22.71 tons-PM₁₀/year, 249 tons-CO/year, or 52.4 tons-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Carbon monoxide (CO) emissions shall not exceed 249 tons for any consecutive 365 day period. Cumulative emissions from the previous 365 day consecutive period shall be summed daily and reported to the District quarterly. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Combustion system shall not operate for more than 7,884 hours per year unless Dinuba Energy demonstrates compliance with the yearly emissions limits listed above. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Only natural gas and wood fuels shall be burned in the boiler. Contamination of the wood fuel, as delivered to the boiler, shall not exceed 1.0% by weight total and limited to the following materials: metals, plastics, paper, painted wood, particle board, wood treated with preservatives, and roofing materials. None of the contaminants allowed by this condition shall contain asbestos. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
24. Facility shall not burn in the combustion system more than 240 lbs/hr nor 1051.2 tons/yr of non-wood material. [District Rule 4102]
25. "Wood" means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn, yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips, and wood waste. Wood does not include material containing sewage sludge or industrial, hazardous, radioactive or municipal solid waste. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
26. Wood waste includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
27. Compliance with wood fuel contamination limits shall be demonstrated by sorting a District selected 5 ton representative sample of wood fuel as requested by the District compliance division. [District Rule 4102]
28. Data collected during sorting of 5 ton sample of wood fuel shall be in pounds of material per ton of wood fuel, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
29. NO_x, CO, and PM emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 4352, 1081, and 40 CFR part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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30. Source testing for the following parameters shall be conducted using the stated test methods: NOx - EPA Method 7 or ARB Method 100; CO - EPA Method 10 or ARB Method 100; CO2 - EPA Method 3 or ARB Method 100; O2 - EPA Method 3 or 3A, or ARB Method 100; SO2 - EPA Method 6 or ARB Method 100; PM10 - EPA Methods 201A & 202; NOx emission rate (Heat input basis) - EPA method 19; Stack Gas Velocities - EPA Method 2; Moisture Content - EPA Method 4; Ammonia - BAAQMD ST1B and Solid Fuel Higher Heating Value - ASTM Method D5865 or E711. [District NSR Rule & 4352] Federally Enforceable Through Title V Permit
31. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
32. Dinuba Energy shall adjust rates of total air flow, overfire air flow, and ammonia injection to simultaneously meet all emissions limits, including visible emissions limit, and keep ammonia slip to a minimum. [District Rule 4102]
33. The auxiliary burner shall be fired exclusively with natural gas. A daily record of fuel gas consumption shall be maintained and submitted to the District quarterly. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Equipment breakdowns of the combustion or CEM systems shall be reported in accordance with District rules 1080 and 1100. [District Rules 1080 and 1100] Federally Enforceable Through Title V Permit
35. Multiclone collector shall be strictly maintained at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Particulate matter concentration exiting electrostatic precipitator shall not exceed 0.016 grains/dscf corrected to 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Rapping frequency and duration shall be pre-programmed and identical for each location, and only one rapping location shall be energized at any one time. [District NSR Rule] Federally Enforceable Through Title V Permit
38. Electrostatic precipitator shall be equipped with an opacity continuous emissions monitor (CEM), which shall be operated in accordance with the requirements of 40 CFR, Part 51, Appendix P, and Part 60, Appendix B. [District Rule 1080 and 40 CFR 63.11205(a)] Federally Enforceable Through Title V Permit
39. Opacity readings shall be averaged over a 15 minute period. [District NSR Rule] Federally Enforceable Through Title V Permit
40. Daily opacity reading of 20% or greater shall be reported to the District quarterly. [District NSR Rule] Federally Enforceable Through Title V Permit
41. Dinuba Energy shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of opacity CEM. [District NSR Rule] Federally Enforceable Through Title V Permit
42. Dinuba Energy shall maintain records of the results of performance testing, evaluations, calibrations, checks, adjustments and maintenance of CEMs. [District NSR Rule, 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
43. Annual audits of continuous emissions monitors shall be conducted pursuant to the requirements of Rule 1080 and in accordance with EPA guidelines, by an independent testing laboratory. The audits shall be District witnessed and the results submitted to the District within 30 days of completion of the audit. [District Rule 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
44. All quarterly reports shall be submitted to the District within 30 days of the end of each calendar quarter. Exceedance of any permit emissions limitation, including opacity, shall be noted on the quarterly report. [District Rule 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
45. All records shall be retained on site for a period of at least 5 years and made readily available to the District upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
46. The permittee shall sample biomass fuel for metals and asbestos analysis quarterly and whenever directed by the District inspector. [District Rule 4102]

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

47. The permittee shall submit a written sampling plan to the District's Compliance Division at least 20 calendar days prior to sampling for metals analysis or asbestos. This plan shall include the date, name of lab, lab's certification # for conducting tests, copy of chain of custody form to be utilized for tracking samples, and method of sampling. [District Rule 4102]
48. The metals and asbestos samples shall be collected in accordance with a written plan for representative samples approved by the District. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
49. The permittee shall have the samples analyzed for metals by ASTM Method E885, or equivalent method approved by the District, using an independent testing laboratory certified to conduct the analysis. The metals to be quantified include Arsenic, Copper, Lead, Manganese, Nickel, Zinc, and Total Chromium. [District Rule 4102]
50. The results of the metals and asbestos analysis shall be reported in ppm (by weight). [District Rule 1081] Federally Enforceable Through Title V Permit
51. The results of metal and asbestos sampling analysis and evidence of chain of custody shall be submitted to the District Compliance Division within 30 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
52. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
53. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing [District Rule 1081] Federally Enforceable Through Title V Permit
54. Particulate matter emissions shall not exceed 0.10 lb/MMBtu. [40 CFR 60.43b(c)(1)] Federally Enforceable Through Title V Permit
55. Owner or operator shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)] Federally Enforceable Through Title V Permit
56. The particulate matter, and opacity standards shall apply at all times, except during periods of startup, shutdown or malfunction. [40 CFR 60.43b(g), 60.46b(a)] Federally Enforceable Through Title V Permit
57. The facility's annual capacity factor for natural gas shall be less than or equal to 10 percent (0.10). [40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit
58. The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system, [40 CFR 60.48b(a)] Federally Enforceable Through Title V Permit
59. The continuous monitoring systems shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit
60. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The span value for a continuous monitoring system for measuring opacity shall be between 60 and 80 percent. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
61. The permittee shall record and maintain records of the amount of wood and natural gas fuel combusted each day, and calculate the annual capacity factor individually for wood and natural gas on a 12-month rolling average with a capacity factor calculated at the end of each month. [40 CFR 60.49b (d)] Federally Enforceable Through Title V Permit
62. The owner or operator shall submit excess emission reports of all 6-minute periods during which the average opacity exceeds the opacity standards under 40 CFR 60.43b(f) during the reporting period. [40 CFR 60.49b(h)] 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.

63. At the time of each annual source test for PM, the permittee shall establish the acceptable range of primary and secondary current and voltage readings for the electrostatic precipitator. Minimum readings for each parameter shall be established at 15% below the average value measured during the PM source test. Maximum readings for each parameter shall be established at 15% above the average value measured during the PM source test. [40 CFR part 64] Federally Enforceable Through Title V Permit
64. During each day of operation, the permittee shall record electrostatic precipitator voltage and current readings and compare the readings with the acceptable range of current and voltage levels established during the most recent annual PM source test. Upon detecting any excursion from the acceptable range of current or voltage readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR part 64] Federally Enforceable Through Title V Permit
65. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR part 64] Federally Enforceable Through Title V Permit
66. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR part 64] Federally Enforceable Through Title V Permit
67. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR part 64] Federally Enforceable Through Title V Permit
68. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR part 64] Federally Enforceable Through Title V Permit
69. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit
70. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.3 (as amended 12/15/11), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
71. The compliance determination shall not be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.2.3] Federally Enforceable Through Title V Permit
72. The permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b), and every two years thereafter. Permittee shall submit a signed statement of the Notification of Compliance Status report that a tune-up of the boiler was completed. [40 CFR 63.11214(b)] Federally Enforceable Through Title V Permit
73. By March 21, 2014, the permittee shall conduct a one-time energy assessment as described in 40 CFR 63, Subpart JJJJJ, Table 2. Permittee shall submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed, and shall submit the energy assessment report upon request. [40 CFR 63.11214(c)] Federally Enforceable Through Title V Permit
74. Permittee shall submit the Notification of Compliance Status report by July 19, 2012. [40 CFR 63.11225(a)(4)] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-3-2

EQUIPMENT DESCRIPTION:
ASH COLLECTION SYSTEM

EXPIRATION DATE: 05/31/2011

DRAFT

PERMIT UNIT REQUIREMENTS

1. Enclosures shall be completely inspected quarterly for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
2. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further operation. 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

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-285-4-2

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:
FUEL RECEIVING AND UNLOADING SYSTEM

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PERMIT UNIT REQUIREMENTS

1. Visible emissions shall be inspected weekly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further unloading. Corrective action shall eliminate visible emissions before next unloading 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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-7-2

EQUIPMENT DESCRIPTION:
FUEL HANDLING SYSTEM

EXPIRATION DATE: 05/31/2011

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PERMIT UNIT REQUIREMENTS

1. Visible emissions shall be inspected weekly 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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-9-2

EXPIRATION DATE: 05/31/2011

SECTION: NE01 **TOWNSHIP:** 16S **RANGE:** 23E

EQUIPMENT DESCRIPTION:

620 HP WOOD WASTE HAMMERMILL HOG OPERATION WITH BAGHOUSE AND WATER SPRAYS

PERMIT UNIT REQUIREMENTS

1. Hammermill shall vent to baghouse dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Water spray bars shall be located at hammermill infeed conveyor, hammermill hood, hammermill discharge, and discharge of the hammermill outfeed conveyor. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Baghouse and water mist sprays shall be in operation when material is being processed. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Baghouse, exhaust fans, and water mist sprays shall be maintained and operated according to manufacturer's recommendation. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The District shall be notified of any breakdown conditions in accordance with Rule 1100 (Equipment Breakdown). [District Rule 1100] Federally Enforceable Through Title V Permit
6. Raw materials shall be loaded to feed hopper in a manner which prevents visible emissions (i.e. not greater than 5% opacity). [District NSR Rule] Federally Enforceable Through Title V Permit
7. {120} The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201]
8. Material removed from baghouse shall be disposed of in a manner preventing entrainment into the atmosphere (i.e. not greater than 5% opacity). [District NSR Rule] Federally Enforceable Through Title V Permit
9. Accurate records of annual production data including tons of material throughput and hours of operation shall be maintained for a period of five years and shall be made available for District inspection upon request. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Visible emissions shall be inspected weekly 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
11. Dust collection system shall be completely inspected quarterly 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
12. Dust collector filters shall be thoroughly inspected quarterly 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
13. 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

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

14. {3246} All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-10-3

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:

102.5 HP HAMMERMILL FUEL SCREENING SYSTEM CONSISTING OF A SURGE BIN, WALKING FLOOR TRAILER FEEDER, FOUR BELT CONVEYORS, DOUBLE DECK SCREEN, DISC SCREEN, AND THREE RADIAL STACKER

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 or darker than 1/4 Ringelmann or equivalent to 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter (as PM-10) emission rate shall not exceed 0.0206 lb/ton material throughput. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Material throughput shall not exceed 1,000 ton/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Visible emissions shall be inspected weekly 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
5. Daily records of material throughput (tons) shall be maintained, retained on the premises for at least five years, and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permits

San Joaquin Valley Air Pollution Control District

FACILITY: S-285-0-1

EXPIRATION DATE: 05/31/2011

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; Fresno County Rule 111] 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; Fresno County Rule 111] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CRES INC DBA DINUBA ENERGY
Location: 6929 AVENUE 430, REEDLEY, CA 93654
S-285-0-1: May 29 2012 11:33AM - BRARG

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

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

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. On July 31, 2007, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-2-7

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:

11.5 MW WOOD-FUELED COGENERATION FACILITY INCLUDING TRAVELING GRATE BOILER WITH FLUE GAS RECIRCULATION (FGR), AMMONIA INJECTION, STEAM TURBINE/GENERATOR, NATURAL GAS FIRED AUXILIARY BURNER, MULTICLONE DUST COLLECTOR, AND SINGLE CHAMBER TWO CELL ELECTROSTATIC PRECIPITATOR

PERMIT UNIT REQUIREMENTS

1. Ammonia injection system shall be operated and maintained in accordance with manufacturers specification. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Electrostatic precipitator shall be operated and maintained in accordance with manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Electrostatic precipitator shall be equipped with an automatic rapping system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Combustion system shall be equipped with continuous emissions monitors (CEM) for NO_x, CO, CO₂, O₂, volumetric flowrate, and opacity. [District NSR Rule and 40 CFR part 64] Federally Enforceable Through Title V Permit
5. Continuous emissions monitors shall be operated in accordance with the requirements of 40 CFR, Part 60, Appendix B, Performance Specifications 1, 2, 3, 4, and CFR Part 60, Appendix F. [District Rules 1080, 4352, and 40 CFR part 64] Federally Enforceable Through Title V Permit
6. Continuous emissions monitor for flue gas volume flow-rate shall meet EPA monitoring performance specifications appearing in 40 CFR, Part 52, Appendix E. [District Rules 4001, 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
7. Ammonia shall be injected into boiler at a rate that results in compliance with the NO_x emissions limit. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Nitrogen oxide emissions (as NO₂) shall not exceed 0.09 lbs/MMBtu based on a 24 hour average, except during periods of startup and shutdown as defined in Rule 4352. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit
9. Nitrogen oxide emissions (as NO₂) shall not exceed 17.87 lb/hr and 70.44 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Carbon monoxide (CO) emissions shall not exceed 400 ppmv @ 3% O₂, except during periods of startup and shutdown, as defined in Rule 4352 (Amended October 19, 1995). [District Rule 4352] Federally Enforceable Through Title V Permit
11. Carbon monoxide (CO) emissions shall not exceed 99.3 lbs/hr and 249 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
12. PM₁₀ emissions shall not exceed 0.0144 grains/dscf corrected to 12% CO₂, 5.76 lbs/hr and 22.71 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Volatile organic compound emissions shall not exceed 13.30 lbs/hr and 52.4 tons/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.

14. Sulfur oxide emissions (as SO₂) shall not exceed 9.90 lbs/hr and 39.1 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Specific Limiting Condition (SLC) limiting the annual emissions from the boiler/generator listed under permit S-285-2 and the transportable IC engine listed under C-799-8, when the engine is operated at facility S-285, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 70.44 tons-NO_x/year, 39.1 tons-SO_x/year, 22.71 tons-PM₁₀/year, 249 tons-CO/year, or 52.4 tons-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Carbon monoxide (CO) emissions shall not exceed 249 tons for any consecutive 365 day period. Cumulative emissions from the previous 365 day consecutive period shall be summed daily and reported to the District quarterly. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Combustion system shall not operate for more than 7884 hours per year unless Dinuba Energy demonstrates compliance with the yearly emissions limits listed above. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Only natural gas and wood fuels shall be burned in the boiler. Contamination of the wood fuel, as delivered to the boiler, shall not exceed 1.0% by weight total and limited to the following materials: metals, plastics, paper, painted wood, particle board, wood treated with preservatives, and roofing materials. None of the contaminants allowed by this condition shall contain asbestos. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
19. Facility shall not burn in the combustion system more than 240 lbs/hr nor 1051.2 tons/yr of non-wood material. [District Rule 4102]
20. "Wood" means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn, yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips, and wood waste. Wood does not include material containing sewage sludge or industrial, hazardous, radioactive or municipal solid waste. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
21. Wood waste includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
22. Compliance with wood fuel contamination limits shall be demonstrated by sorting a District selected 5 ton representative sample of wood fuel as requested by the District compliance division. [District Rule 4102]
23. Data collected during sorting of 5 ton sample of wood fuel shall be in pounds of material per ton of wood fuel, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
24. NO_x, CO, and PM emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 4352, 1081, and 40 CFR part 64] Federally Enforceable Through Title V Permit
25. Source testing for the following parameters shall be conducted using the stated test methods: NO_x - EPA Method 7 or ARB Method 100, CO - EPA Method 10 or ARB Method 100, CO₂ - EPA Method 3 or ARB Method 100, O₂ - EPA Method 3 or ARB Method 100, SO₂ - EPA Method 6 or ARB Method 100, PM₁₀ - EPA Methods 201A & 202, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Ammonia - BAAQMD ST1B, & Fuel Heating Value - ASTM Method D2015 or E711. [District NSR Rule and 4352] Federally Enforceable Through Title V Permit
26. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
27. Dinuba Energy shall adjust rates of total air flow, overfire air flow, and ammonia injection to simultaneously meet all emissions limits, including visible emissions limit, and keep ammonia slip to a minimum. [District Rule 4102]
28. The auxiliary burner shall be fired exclusively with natural gas. A daily record of fuel gas consumption shall be maintained and submitted to the District quarterly. [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.

29. Equipment breakdowns of the combustion or CEM systems shall be reported in accordance with District rules 1080 and 1100. [District Rules 1080 and 1100] Federally Enforceable Through Title V Permit
30. Multiclone collector shall be strictly maintained at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
31. Particulate matter concentration exiting electrostatic precipitator shall not exceed 0.016 grains/dscf corrected to 12% CO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
32. Rapping frequency and duration shall be pre-programmed and identical for each location, and only one rapping location shall be energized at any one time. [District NSR Rule] Federally Enforceable Through Title V Permit
33. Electrostatic precipitator shall be equipped with an opacity continuous emissions monitor (CEM), which shall be operated in accordance with the requirements of 40 CFR, Part 51, Appendix P, and Part 60, Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
34. Opacity readings shall be averaged over a 15 minute period. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Daily opacity reading of 20% or greater shall be reported to the District quarterly. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Dinuba Energy shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of opacity CEM. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Dinuba Energy shall maintain records of the results of performance testing, evaluations, calibrations, checks, adjustments and maintenance of CEMs. [District NSR Rule, 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
38. Annual audits of continuous emissions monitors shall be conducted pursuant to the requirements of Rule 1080 and in accordance with EPA guidelines, by an independent testing laboratory. The audits shall be District witnessed and the results submitted to the District within 30 days of completion of the audit. [District Rule 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
39. All quarterly reports shall be submitted to the District within 30 days of the end of each calendar quarter. Exceedance of any permit emissions limitation, including opacity, shall be noted on the quarterly report. [District Rule 1080, and 40 CFR part 64] Federally Enforceable Through Title V Permit
40. All records shall be retained on site for a period of at least 5 years and made readily available to the District upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The permittee shall sample biomass fuel for metals and asbestos analysis quarterly and whenever directed by the District inspector. [District Rule 4102]
42. The permittee shall submit a written sampling plan to the District's Compliance Division at least 20 calendar days prior to sampling for metals analysis or asbestos. This plan shall include the date, name of lab, lab's certification # for conducting tests, copy of chain of custody form to be utilized for tracking samples, and method of sampling. [District Rule 4102]
43. The metals and asbestos samples shall be collected in accordance with a written plan for representative samples approved by the District. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
44. The permittee shall have the samples analyzed for metals by ASTM Method E885, or equivalent method approved by the District, using an independent testing laboratory certified to conduct the analysis. The metals to be quantified include Arsenic, Copper, Lead, Manganese, Nickel, Zinc, and Total Chromium. [District Rule 4102]
45. The results of the metals and asbestos analysis shall be reported in ppm (by weight). [District Rule 1081] Federally Enforceable Through Title V Permit
46. The results of metal and asbestos sampling analysis and evidence of chain of custody shall be submitted to the District Compliance Division within 30 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

47. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
48. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing [District Rule 1081] Federally Enforceable Through Title V Permit
49. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$; P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
50. Particulate matter emissions shall not exceed 0.10 lb/MMBtu. [40 CFR 60.43b(c)(1)] Federally Enforceable Through Title V Permit
51. Owner or operator shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)] Federally Enforceable Through Title V Permit
52. The particulate matter, and opacity standards shall apply at all times, except during periods of startup, shutdown or malfunction. [40 CFR 60.43b(g), 60.46b(a)] Federally Enforceable Through Title V Permit
53. The facility's annual capacity factor for natural gas shall be less than or equal to 10 percent (0.10). [40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit
54. The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system, [40 CFR 60.48b(a)] Federally Enforceable Through Title V Permit
55. The continuous monitoring systems shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit
56. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The span value for a continuous monitoring system for measuring opacity shall be between 60 and 80 percent. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
57. The permittee shall record and maintain records of the amount of wood and natural gas fuel combusted each day, and calculate the annual capacity factor individually for wood and natural gas on a 12-month rolling average with a capacity factor calculated at the end of each month. [40 CFR 60.49b (d)] Federally Enforceable Through Title V Permit
58. The owner or operator shall submit excess emission reports of all 6-minute periods during which the average opacity exceeds the opacity standards under 40 CFR 60.43b(f) during the reporting period. [40 CFR 60.49b(h)] Federally Enforceable Through Title V Permit
59. At the time of each annual source test for PM, the permittee shall establish the acceptable range of primary and secondary current and voltage readings for the electrostatic precipitator. Minimum readings for each parameter shall be established at 15% below the average value measured during the PM source test. Maximum readings for each parameter shall be established at 15% above the average value measured during the PM source test. [40 CFR part 64] Federally Enforceable Through Title V Permit
60. During each day of operation, the permittee shall record electrostatic precipitator voltage and current readings and compare the readings with the acceptable range of current and voltage levels established during the most recent annual PM source test. Upon detecting any excursion from the acceptable range of current or voltage readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR part 64] Federally Enforceable Through Title V Permit
61. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR part 64] 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. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR part 64] Federally Enforceable Through Title V Permit
63. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR part 64] Federally Enforceable Through Title V Permit
64. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR part 64] Federally Enforceable Through Title V Permit
65. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-3-1

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:
ASH COLLECTION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Enclosures shall be completely inspected quarterly for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
2. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further operation. 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
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$; P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$; 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: S-285-4-1

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:
FUEL RECEIVING AND UNLOADING SYSTEM

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$; P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
2. Visible emissions shall be inspected weekly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further unloading. Corrective action shall eliminate visible emissions before next unloading 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-7-1

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:
FUEL HANDLING SYSTEM

PERMIT UNIT REQUIREMENTS

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-9-1

EXPIRATION DATE: 05/31/2011

SECTION: NE01 **TOWNSHIP:** 16S **RANGE:** 23E

EQUIPMENT DESCRIPTION:

620 HP WOOD WASTE HAMMERMILL HOG OPERATION WITH BAGHOUSE AND WATER SPRAYS

PERMIT UNIT REQUIREMENTS

1. Hammermill shall vent to baghouse dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Water spray bars shall be located at hammermill infeed conveyor, hammermill hood, hammermill discharge, and discharge of the hammermill outfeed conveyor. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Baghouse and water mist sprays shall be in operation when material is being processed. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Baghouse, exhaust fans, and water mist sprays shall be maintained and operated according to manufacturer's recommendation. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The District shall be notified of any breakdown conditions in accordance with Rule 1100 (Equipment Breakdown). [District Rule 1100] Federally Enforceable Through Title V Permit
6. Raw materials shall be loaded to feed hopper in a manner which prevents visible emissions (i.e. not greater than 5% opacity). [District NSR Rule] Federally Enforceable Through Title V Permit
7. Material removed from baghouse shall be disposed of in a manner preventing entrainment into the atmosphere (i.e. not greater than 5% opacity). [District NSR Rule] Federally Enforceable Through Title V Permit
8. Accurate records of annual production data including tons of material throughput and hours of operation shall be maintained for a period of five years and shall be made available for District inspection upon request. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. Visible emissions shall be inspected weekly 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
10. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59xP^{0.62}$; P is less than or equal to 30 tons per hour, or $E=17.31xP^{0.16}$; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
11. Dust collection system shall be completely inspected quarterly 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
12. Dust collector filters shall be thoroughly inspected quarterly 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
13. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-285-10-2

EXPIRATION DATE: 05/31/2011

EQUIPMENT DESCRIPTION:

102.5 HP HAMMERMILL FUEL SCREENING SYSTEM CONSISTING OF A SURGE BIN, WALKING FLOOR TRAILER FEEDER, FOUR BELT CONVEYORS, DOUBLE DECK SCREEN, DISC SCREEN, AND THREE RADIAL STACKER

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 or darker than 1/4 Ringelmann or equivalent to 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter (as PM-10) emission rate shall not exceed 0.0206 lb/ton material throughput. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Material throughput shall not exceed 1,000 ton/day. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Daily records of material throughput (tons) shall be maintained, retained on the premises for at least five years, and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Visible emissions shall be inspected weekly 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
6. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$; P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$; 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.

ATTACHMENT C

Detailed Facility List

Detailed Facility Report
For Facility=285 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

CRS INC DBA DINUBA ENERGY 6929 AVENUE 430 REEDLEY, CA 93654	FAC # STATUS TELEPHONE	S:285 A 8185041431	TYPE: TOXIC ID:	TitleV 50071	EXPIRE ON: AREA: INSP. DATE:	05/31/2011 11 08/12
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-285-2-7	11.5 MW	3020-08A E	1	5,109.00	5,109.00	A	11.5 MW WOOD-FUELED COGENERATION FACILITY INCLUDING TRAVELING GRATE BOILER WITH FLUE GAS RECIRCULATION (FGR), AMMONIA INJECTION, STEAM TURBINE/GENERATOR, NATURAL GAS FIRED AUXILIARY BURNER, MULTICLONE DUST COLLECTOR, AND SINGLE CHAMBER TWO CELL ELECTROSTATIC PRECIPITATOR
S-285-3-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	A	ASH COLLECTION SYSTEM
S-285-4-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	A	FUEL RECEIVING AND UNLOADING SYSTEM
S-285-7-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	A	FUEL HANDLING SYSTEM
S-285-9-1	650 hp electric motors	3020-01 F	1	607.00	607.00	A	620 HP WOOD WASTE HAMMERMILL HOG OPERATION WITH BAGHOUSE AND WATER SPRAYS
S-285-10-2	102.5 hp electric motors	3020-01 D	1	314.00	314.00	A	102.5 HP HAMMERMILL FUEL SCREENING SYSTEM CONSISTING OF A SURGE BIN, WALKING FLOOR TRAILER FEEDER, FOUR BELT CONVEYORS, DOUBLE DECK SCREEN, DISC SCREEN, AND THREE RADIAL STACKER

Number of Facilities Reported: 1

ATTACHMENT D

District Rule 4601 Stringency Analysis

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

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
2.0 Applicability	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.
4.0 Exemptions	<p>The provisions of this rule shall not apply to:</p> <p>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.</p> <p>4.2 Any architectural coating that is sold in a containers with a volume of one liter (1.057 quarts) or less.</p> <p>4.3 Any aerosol coating product.</p>	<p>4.1 The provisions of this rule shall not apply to:</p> <p>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.</p> <p>4.1.2 Any aerosol coating product.</p> <p>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.</p>	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.
5.0 Requirements	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 F.		
	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2, 5.3, 5.8 and 8.0, no person shall;</p> <p>5.1.1 manufacture, blend, or repackage for sale within the District;</p> <p>5.1.2 supply, sell, or offer for sale within the district;</p> <p>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.</p>	<p>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.</p>	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.
	<p>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:</p> <p>5.2.1 Lacquer coatings (including</p>	<p>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.</p> <p>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</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.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>lacquer sanding sealers)</p> <p>5.2.2 Metallic pigmented coatings</p> <p>5.2.3 Shellacs</p> <p>5.2.4 Fire-retardant coatings</p> <p>5.2.5 Pretreatment wash primers</p> <p>5.2.6 Industrial maintenance coatings</p> <p>5.2.7 Low-solids coatings</p> <p>5.2.8 Wood preservatives</p> <p>5.2.9 High temperature coatings</p> <p>5.2.10 Temperature-indicator safety coatings</p> <p>5.2.11 Antenna coatings</p> <p>5.2.12 Antifouling coatings</p> <p>5.2.13 Flow coatings</p> <p>5.2.14 Bituminous roof primers</p> <p>5.2.15 Specialty primers, sealers and undercoaters</p>	<p>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.</p> <p>5.2.2 Effective on and after January 1, 2011, with the exception of the 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.</p> <p>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.</p> <p>5.2.3.1 Lacquer coatings (including lacquer sanding sealers)</p> <p>5.2.3.2 Metallic pigmented coatings</p> <p>5.2.3.3 Shellacs</p> <p>5.2.3.4 Fire-retardant coatings</p> <p>5.2.3.5 Pretreatment wash primers</p> <p>5.2.3.6 Industrial maintenance coatings</p> <p>5.2.3.7 Low-solids coatings</p> <p>5.2.3.8 Wood preservatives</p> <p>5.2.3.9 High temperature coatings</p> <p>5.2.3.10 Temperature-indicator safety coatings</p> <p>5.2.3.11 Antenna coatings</p> <p>5.2.3.12 Antifouling coatings</p> <p>5.2.3.13 Flow coatings</p> <p>5.2.3.14 Bituminous roof primers</p> <p>5.2.3.15 Specialty primers, sealers and undercoaters</p> <p>5.2.3.16 Aluminum roof coatings</p> <p>5.2.3.17 Zinc-rich primers</p> <p>5.2.3.18 Wood Coatings</p>	
	<p>5.3 Sell-Through of Coatings:</p> <p>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,</p>	<p>5.3 Sell-Through of Coatings:</p> <p>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</p>	<p>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</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>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.</p> <p>5.3.2 A coating included in an approved Averaging Program that does not comply with the specified limit in the 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>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.</p>	<p>than the SIP version of the rule.</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</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</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	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.	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.	Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
	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 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.	---	This section has been removed. The operation is required to meet the lacquer VOC limit regardless of 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 F for Table)		Table of Standards 1 (Effective through 12/31/10) (See Attachment F for Table)	The non-SIP rule requirements are the same as the Table of Standards in the SIP

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
			<p>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.</p>
		<p>Table of Standards 2 (Effective on and after 1/1/11) (See Attachment F for Table)</p>	<p>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.</p>
<p>6.0 Administrative Requirements</p>	<p>6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections 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</p>	<p>6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the 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</p>	<p>The non-SIP approved rule contain sections listed in the SIP rule plus 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>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" 6.1.4.2 "For professional use only" 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 display one or more of the descriptions listed in Section 6.1.7.1 through 6.1.7.5.</p> <p>6.1.7.1 For blocking stains. 6.1.7.2 For fire-damaged substrates. 6.1.7.3 For smoke-damaged substrates. 6.1.7.4 For water-damaged substrates. 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>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 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" 6.1.5.2 "For professional use only" 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</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>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> <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</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</p>	<p>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</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>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>6.2.4.2 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</p>	<p>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>6.2.4.2 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</p>	<p>version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>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>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, 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</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>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>	
	<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</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</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>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 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</p>	<p>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 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>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>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—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</i></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> <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</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p><i>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>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 Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>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," SCAQMD Laboratory Methods of Analysis for Enforcement Samples.</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 for Evaluating Degree of Blistering of</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>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.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
8.0 Averaging Compliance Option	<p>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 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>		No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.

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.

ATTACHMENT E

Table of Standards in Rule 4601

TABLE OF STANDARDS 1 (Effective through 12/31/10)

Limits are expressed in grams of VOC per liter^a of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, exempt compounds, or colorant added to tint bases. Manufacturer's maximum recommendation means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

COATING CATEGORY	Effective Date: 1/1/2003
Flat Coatings	100
Nonflat Coatings	150
Nonflat - High Gloss Coatings	250
Specialty Coatings	
Antenna Coatings	530
Antifouling Coatings	400
Bituminous Roof Coatings	300
Bituminous Roof Primers	350
Bond Breakers	350
Clear Wood Coatings:	
Clear Brushing Lacquers	680
Lacquers (including lacquer sanding sealers)	550
Sanding Sealers (other than lacquer sanding sealers)	350
Varnishes	350
Concrete Curing Compounds	350
Dry Fog Coatings	400
Faux Finishing Coatings	350
Fire Resistive Coatings	350
Fire-Retardant Coatings:	
Clear	650
Opaque	350
Floor Coatings	250
Flow Coatings	420
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings	120 ^b
Magnesite Cement Coatings	450
Mastic Texture Coatings	300
Metallic Pigmented Coatings	500
Multi-Color Coatings	250

TABLE OF STANDARDS 1, continued (Effective through 12/31/10)

COATING CATEGORY	Effective Date: 1/1/2003
Pre-Treatment Wash Primers	420
Primers, Sealers, and Undercoaters	200
Quick-Dry Enamels	250
Quick-Dry Primers, Sealers and Undercoaters	200
Recycled Coatings	250
Roof Coatings	250
Rust Preventative Coatings	400
Shellacs:	
Clear	730
Opaque	550
Specialty Primers, Sealers, and Undercoaters	350
Stains	250
Swimming Pool Coatings	340
Swimming Pool Repair and Maintenance Coatings	340
Temperature-Indicator Safety Coatings	550
Traffic Marking Coatings	150
Waterproofing Sealers	250
Waterproofing Concrete/Masonry Sealers	400
Wood Preservatives	350

a Conversion factor: one pound VOC per gallon (U.S.) = 119.95 grams VOC per liter.

b Units are grams of VOC per liter of coating, including water and exempt compounds in accordance with Section 3.27.

TABLE OF STANDARDS 2 (Effective on and after 1/1/11)

Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.

COATING CATEGORY	VOC Limit (g/l) Effective 1/1/2011 through 12/31/2011²	VOC Limit (g/l) Effective on and after 1/1/2012²
Flat Coatings	50	50
Nonflat Coatings	100	100
Nonflat - High Gloss Coatings	150	150
Specialty Coatings		
Aluminum Roof Coatings	400	400
Basement Specialty Coatings	400	400
Bituminous Roof Coatings	50	50
Bituminous Roof Primers	350	350
Bond Breakers	350	350
Concrete Curing Compounds	350	350
Concrete/Masonry Sealers	100	100
Driveway Sealers	50	50
Dry Fog Coatings	150	150
Faux Finishing Coatings	350	350
Fire Resistive Coatings	350	350
Floor Coatings	100	100
Form-Release Compounds	250	250
Graphic Arts Coatings (Sign Paints)	500	500
High Temperature Coatings	420	420
Industrial Maintenance Coatings	250	250
Low Solids Coatings ¹	120 ¹	120 ¹
Magnesite Cement Coatings	450	450
Mastic Texture Coatings	100	100
Metallic Pigmented Coatings	500	500
Multi-Color Coatings	250	250
Pre-Treatment Wash Primers	420	420
Primers, Sealers, and Undercoaters	100	100
Reactive Penetrating Sealers	350	350
Recycled Coatings	250	250
Roof Coatings	50	50
Rust Preventative Coatings	400	250

TABLE OF STANDARDS 2 (continued) (Effective on and after 1/1/11)

Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.

COATING CATEGORY	VOC Limit (g/l) Effective 1/1/2011 through 12/31/2011²	VOC Limit (g/l) Effective on and after 1/1/2012²
Shellacs:		
Clear	730	730
Opaque	550	550
Specialty Primers, Sealers, and Undercoaters	350	100
Stains	250	250
Stone Consolidants	450	450
Swimming Pool Coatings	340	340
Traffic Marking Coatings	100	100
Tub and Tile Refinish Coatings	420	420
Waterproofing Membranes	250	250
Wood Coatings	275	275
Wood Preservatives	350	350
Zinc-Rich Primers	340	340