



APR 11 2017

Mr. James Huffman
Thermal Energy Development Partnership LP
14800 W. Schulte Rd
Tracy, CA 95377

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # N-1026
Project # N-1160022**

Dear Mr. Huffman:

The District has issued the Final Renewed Title V Permit for Thermal Energy Development Partnership LP (see enclosure). The preliminary decision for this project was made on March 1, 2017. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

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

Sincerely,



Arnaud Marjollet
Director of Permit Services

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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



Facility # N-1026
THERMAL ENERGY DEV PARTNERSHIP LP
14800 W SCHULTE RD
TRACY, CA 95377-8795

Notice of Permit Issuance

The enclosed permit unit requirements authorize the operation of the equipment as described. These permit unit requirements supersede any and all previous permits for the specified equipment.* Please insert these documents into the Facility Permit to Operate, and post copies on or near the equipment as required by District Rule 2010.

Please contact any of our Small Business Assistance (SBA) staff at the numbers below if you have any questions:

Modesto:	(209) 557-6446
Fresno:	(559) 230-5888
Bakersfield:	(661) 392-5665

*Failure to comply with the permit unit requirements may result in enforcement action.

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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Permit to Operate

FACILITY: N-1026

EXPIRATION DATE: 07/31/2021

LEGAL OWNER OR OPERATOR:
MAILING ADDRESS:

THERMAL ENERGY DEV PARTNERSHIP LP
14800 W SCHULTE RD
TRACY, CA 95377-8795

FACILITY LOCATION:

14800 W SCHULTE RD
TRACY, CA 95377

FACILITY DESCRIPTION:

ELECTRICAL GENERATION FACILITY

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

Arnaud Marjollet
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: N-1026-0-4

EXPIRATION DATE: 07/31/2021

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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [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, 9.9.1 and 9.13.1] 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: THERMAL ENERGY DEV PARTNERSHIP LP
Location: 14800 W SCHULTE RD, TRACY, CA 95377
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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 (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

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 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. 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. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8061 and 8011] Federally Enforceable Through Title V Permit
34. 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 Rules 8071 and 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (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. The reporting period of the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of reporting period. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-1-18

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR AND EQUIPPED WITH A MULTICLONE AND ELECTROSTATIC PRECIPITATOR, LIME/LIMESTONE INJECTION, AND SELECTIVE NON-CATALYTIC REDUCTION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Except during periods of startup, shutdown, or malfunction, the permittee shall not discharge 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. Owners and operators of an affected facility that install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to Subpart Db and are subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less are exempt from the opacity standard specified in this paragraph. [40 CFR 60, Subpart Db] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301] Federally Enforceable Through Title V Permit
3. At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any effected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [District Rule 4352 and 40 CFR 60.11(d)] Federally Enforceable Through Title V Permit
4. The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The boiler shall utilize limestone/lime injection for SOx control and a thermal DeNOx system (selective non-catalytic reduction system) utilizing ammonia injection for NOx control. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The boiler shall be equipped with an automatic air/fuel ratio control system. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Natural gas fired burners shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. The natural gas burners shall be of staged combustion, low-NOx design. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Natural gas fuel usage shall be limited to an annual capacity factor of 10% or less based on the ratio of actual natural gas heat input and maximum potential heat input had the boiler unit been operating at maximum steady-state capacity for 8,760 hours per year. [District Rule 2201 and 40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Except during startup and shutdown, NO_x emissions shall not exceed 90 ppmv corrected to 3% O₂ and CO emissions shall not exceed 400 ppmv corrected to 3% O₂. Except during source tests, compliance with these emission limits shall be determined from CEMS data based on a block 24-hour average. During source tests, compliance with these emission limits shall be determined using the test methods and procedures specified elsewhere in this permit. [District Rule 4352] Federally Enforceable Through Title V Permit
11. The NO_x emissions shall not exceed 27.2 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The SO_x emissions shall not exceed 6.25 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The PM₁₀ emissions shall not exceed 8.75 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
14. PM emissions from the boiler shall not exceed 43 ng/J (0.1 lb/MMBtu). [40 CFR Part 60.43b(c)(1)] Federally Enforceable Through Title V Permit
15. The particulate matter emissions shall not exceed 8.75 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The CO emissions shall not exceed 74.4 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The CO emissions shall not exceed 1545.6 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The CO emissions shall not exceed 537,280 pounds per year. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The VOC emissions shall not exceed 12.8 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The ammonia emissions shall not exceed 100 ppm, by volume, at 3% O₂. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
21. A block 24-hour average is the arithmetic average of the hourly emission rates of a unit as measured over 24 one-hour periods, daily, from 12:00 AM to 11:59 PM, excluding periods of system calibration. [District Rule 4352] Federally Enforceable Through Title V Permit
22. The duration of each shutdown shall not exceed 12 hours per event. [District Rule 4352] Federally Enforceable Through Title V Permit
23. The duration of each startup shall not exceed 96 hours per event. 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. [District Rule 4352] Federally Enforceable Through Title V Permit
24. Startup is the period of time during which a unit is heated to the operating temperature and pressure from a shutdown or hot standby condition. Shutdown is the period of time during which a unit is taken from operational to non-operational status by allowing it to cool down from its operating temperature to an ambient temperature or to a hot standby condition. A hot standby condition is 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] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted to demonstrate compliance with the VOC (lb/hr), NO_x (lb/hr and ppmv), CO (lb/hr and ppmv), PM₁₀ (lb/hr), SO_x (lb/hr), particulate matter (lb/hr), and ammonia (ppmv) emission limits at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Compliance with the hourly emission rates for NO_x, CO, VOC, SO_x, PM₁₀, and particulate matter and the ammonia concentration while source testing shall be determined using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0. [District Rules 1081, 2201, and 4352] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

27. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The pre-test plan shall outline the test methods, procedures, and operating parameters for each source test required. [District Rule 1081] Federally Enforceable Through Title V Permit
29. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
30. The permittee shall comply with the requirements for sampling facilities listed in District Rule 1081 Section 3.0 (amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of oxides of nitrogen (as NO₂) shall be conducted using EPA method 7E or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10, or CARB methods 10 or 100. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA methods 18 or 25, or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Source testing to measure concentrations of oxides of sulfur (SO_x) as SO₂ shall be conducted using EPA methods 6 or 8, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not include ammonia sulfate compounds. The temperature of the sample gas in the probe and filter holder is monitored and is maintained at 160±14 °C (320±25 °F). [District Rule 2201 and 40 CFR Part 60.46b(d)(4)] Federally Enforceable Through Title V Permit
37. Source testing to measure concentrations of PM₁₀ shall be conducted using EPA method 201 and 202, or EPA method 201a and 202, or CARB method 501 and 5. [District Rule 2201] Federally Enforceable Through Title V Permit
38. In lieu of performing a source test for PM₁₀, the results of the total particulate test may be used for compliance with the PM₁₀ emissions limit. [District Rule 2201] Federally Enforceable Through Title V Permit
39. For determination of PM emissions, O₂ or CO₂ sample shall be obtained simultaneously with each run of Method 5 by traversing the duct at the same sampling location. [40 CFR Part 60.46b(d)(5)] Federally Enforceable Through Title V Permit
40. PM emissions rate in lb/MMBtu shall be determined using O₂ or CO₂ measurements and PM measurements, dry basis F factor and dry basis emission rate calculation procedure contained in Method 19. [40 CFR Part 60.46b(d)(6)] Federally Enforceable Through Title V Permit
41. Source testing to measure stack gas velocity shall be conducted using EPA method 2 or CARB method 2. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Source testing to measure concentrations of NH₃ shall be conducted using Bay Area Air Quality Management District (BAAQMD) method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Solid fuel higher heating value (hhv) shall be determined by ASTM Method D 5865, or ASTM Method E 711. [District Rule 4352] Federally Enforceable Through Title V Permit
45. EPA method 1 shall be used to select the sampling site and number of traverse sampling points. The sampling time for each particulate matter run is at least 120 minutes minimum sampling volume is 1.7 dscm (60 dscf) except that smaller sampling times or volumes may be approved by the District when necessitated by process variables or other factors. [40 CFR Part 60.46b(3)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

46. All emission measurements shall be made with the unit operating at condition representative of normal operations. No compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
47. The facility shall install, calibrate, maintain, and operate an oxygen or carbon dioxide continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [District Rules 1080, 2201, and 4352, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
48. When using measurements taken by the CO₂ analyzer for emission compliance determinations, the following formula shall be used to convert the emission concentration referenced at 12 percent CO₂ to an emission concentration referenced at 3 percent O₂: $E \text{ at } 3\%O_2 = E \text{ at } 12\%CO_2 \times (CO_2 \text{ F-Factor} \div O_2 \text{ F-Factor}) \times (100 \div 12) \times (20.9 - 3) \div 20.9$. Where, the CO₂ F-Factor is in terms of scf CO₂/MMBtu and the O₂ F-Factor is in terms of dscf/MMBtu at 0% O₂. Permittee may choose to use the default CO₂ and O₂ F-Factors for wood listed in 40 CFR Method 19, or may choose to use site-specific F-Factors. If using site specific F-Factors, permittee shall re-determine the site-specific F-Factors annually using at least 9 fuel samples. The site-specific F-Factors shall be determined in accordance with EPA Method 19. [District Rules 1080 and 2080, and 40 CFR 60]
49. Permittee shall keep records of site-specific F-Factor determinations, including the date of each determination, the corresponding CO₂ F-Factor, and the corresponding O₂ F-Factor. [District Rules 1080 and 2080, and 40 CFR 60] Federally Enforceable Through Title V Permit
50. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.48b, 40 CFR 60.13, and 40 CFR 60 Appendix B. The span value for the COMS shall be between 60% and 80%. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. [40 CFR 60.48b(a), 40 CFR 60.48b(e)(1), 40 CFR 64 and District Rule 1080] Federally Enforceable Through Title V Permit
51. The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 1080 and 2201, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
52. The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 2201, 1080, and 4352, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
53. The facility shall install, calibrate, maintain, and operate a carbon monoxide continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 1080 and 2201, and 40 CFR 60] Federally Enforceable Through Title V Permit
54. Except during the annual source test, compliance with the hourly emission limits of NO_x, CO, and SO_x shall be determined by the continuous monitoring and recording equipment and shall be based on a 24 hour rolling average. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
55. Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 64] Federally Enforceable Through Title V Permit
56. Within 96 hours, the operator shall report to the District any violation of the NO_x, CO, or SO_x emission standards indicated by the CEMS. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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57. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
58. The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [40 CFR 60.49b(v)] Federally Enforceable Through Title V Permit
59. The permittee shall submit an excess emissions and monitoring systems performance report and-or summary report form to the EPA semiannually. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess opacity emissions and COMS downtime shall include the information listed in 40 CFR 60.7(c)(1) through (4). The summary report form shall contain the information listed in 40 CFR 60.7(d). [40 CFR 60.49b(h)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
60. Excess opacity emissions are defined as all 6-minute periods during which the average opacity exceeds 20 percent, except for one 6-minute period per hour of not more than 27 perfect opacity. [40 CFR 60.49(h)(3) and 60.43b(f)] Federally Enforceable Through Title V Permit
61. Operator shall notify the District no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
62. The permittee, shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard. [40 CFR 60.7(f)(1)] Federally Enforceable Through Title V Permit
63. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of CEMS shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit Reports, pursuant to 40 CFR 60 Appendix F, shall be submitted, to the District, along with the Quarterly CEMS Report. [District Rule 1080 and 40 CFR Appendix F] Federally Enforceable Through Title V Permit
64. The owner/operator shall perform a CEMS relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.1.1, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the CEMS equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. The permittee shall submit the RATA Report to the APCO; two copies of the RATA Report shall be submitted to USEPA Region IX. [District Rule 1080, 40 CFR 60.4(a), and 40 CFR 60, Appendix F] Federally Enforceable Through Title V Permit
65. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [District Rule 2201 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
66. Adequate amounts of agricultural waste which otherwise would be disposed of by open burning shall be used as boiler fuel to provide offsets at adequate ratios (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). [District Rule 2201] Federally Enforceable Through Title V Permit
67. The above ratios shall be used to mitigate the following daily emissions limits: PM - 263.7 lbs; NOx - 726.3 lbs; CO - 1,472 lbs; VOC - 314.8 lbs. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

68. No later than December 1st of each calendar year, the permittee shall submit an Emission Offset Report to the District for the following calendar year. The Report shall include copies of creditable agricultural waste fuel purchase contracts for the following calendar year, including the quantity of offset credits they could generate, and the quantity of offset credits available from the Accrued Unused Offset Balance as determined by the Credit Accounting Report, as of October 1st of the current calendar year. The Report shall demonstrate that the quantity of all available and projected offsets to be generated for the following calendar year is equal or greater than the full amount of offsets required by this permit for the following calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
69. The amount of offsets required by this permit for the following calendar year is equal to the highest hourly, daily, monthly or annual emission rate limit contained in this permit for NO_x, SO_x, CO, VOC, PM and PM₁₀, calculated on an annualized basis. [District Rule 2201] Federally Enforceable Through Title V Permit
70. The permittee shall maintain a monthly Credit Accounting Report available for review by the District upon request. The Report shall demonstrate that sufficient credits were provided to fully offset the actual emissions emitted for each pollutant. The Report shall calculate each of the following monthly: Offset Credits Generated, Monthly Emission Rate, Offset Credit Surplus, Accrued Unused Offset Balance, and Expired Credits. The monthly calculations shall be completed by the 15th day of the following calendar month. The Offset Credits Generated shall be determined by multiplying the weight of each creditable fuel received with its respective open-burn emission factor and divide the resultant by the appropriate distance offset ratio (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). The Monthly Emission Rate shall be determined by multiplying the daily emission limit for each pollutant by the number of operating days in a month. The Offset Credit Surplus (or deficit) shall be determined by subtracting the Monthly Emission Rate from the Offset Credits Generated. The Accrued Unused Offset Balance shall be determined by summing the Offset Credit Surplus (or deficit) for each month, beginning in January 2001, and subtracting any Expired Credits. Expired Credits shall be determined by summing the Offset Credit Surplus (or deficit) for the previous 11 months and subtracting this value from the current Accrued Unused Offset Balance. Any positive value resulting from this calculation will determine the quantity of Expired Credits. [District Rule 2201] Federally Enforceable Through Title V Permit
71. The permittee shall maintain copies of each executed creditable agricultural waste fuel purchase contract. [District Rule 2201] Federally Enforceable Through Title V Permit
72. All such offset contracts shall become part of this Permit to Operate and shall be enforceable pursuant to the applicable rules and regulations. [District Rule 2201] Federally Enforceable Through Title V Permit
73. This unit shall only be fired on biomass, except that the unit may also be fired on natural gas during startup, shutdown, and flame stabilization periods. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
74. Biomass is defined as any organic material originating from plants, not treated with preservatives and not derived from fossil fuels, including but not limited to products, by-products, and residues from agriculture, forestry, aquatic and related industries, such as agricultural, energy or feed crops and residues, orchard and vineyard prunings and removal, stone fruit pits, nut shells, cotton gin trash, corn stalks and stover, straw, seedhulls, sugarcane leavings and bagasse, aquatic plants and algae, cull logs, eucalyptus logs, poplars, willows, switchgrass, alfalfa, bark, lawn, yard and garden clippings, paper (unprinted), leaves, silvicultural residue, tree and brush pruning, sawdust, timber slash, mill scrap, wood and wood chips, and wood waste. Biomass does not include tires, material containing sewage sludge, or industrial, hazardous, radioactive, or municipal solid waste. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
75. Wood waste consists of wood pieces or particles which are generated from the manufacturing or production of wood products, harvesting, processing or storage of raw wood materials, or construction and demolition activities. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
76. Urban wood waste (derived from construction and demolition or diverted from landfills) is approved as fuel provided the mixed urban wood waste fuel contains less than 1% by weight, of plastic, rubber, metals, roofing felt paper, and other non-wood contaminants (other than dirt or ash). No asbestos-containing materials are approved as fuel. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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77. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year, as follows: equivalent of one truckload of mixed urban wood waste fuel prepared for combustion in the boiler (subject to District approval) shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified (plastic, rubber, metals, roofing felt paper, or other non-wood contaminants) and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
78. No putrescible material shall be received at this facility and/or combusted in the boiler. [District Rule 2201] Federally Enforceable Through Title V Permit
79. Prior notification and District approval shall be required upon any new fuel usage. [District Rule 2201] Federally Enforceable Through Title V Permit
80. Permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b) every two years. 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
81. All electrostatic precipitator fields shall be in operation whenever the boiler is operated. The electrostatic precipitator secondary voltage and secondary current settings shall be maintained at levels sufficient to demonstrate a corona power (estimated as secondary voltage, in KiloVolts, multiplied by secondary current, in Amperes) of at least 3.0 KilovoltAmperes in field #1, 5.0 KilovoltAmperes in field #2, 5.0 KilovoltAmperes in field #3 and 12.0 KilovoltAmperes in field #4. Transient corona power disruptions due to arcs and sparks, or similar automatic functions of the electrostatic precipitator, shall not constitute deviations. The electrostatic precipitator shall be maintained in accordance with the manufacturer's recommendations, a copy of which shall be maintained on site. [40 CFR 64] Federally Enforceable Through Title V Permit
82. The applicant shall record the secondary voltage and the secondary current for each electrostatic precipitator field at least four times daily. [40 CFR 64] Federally Enforceable Through Title V Permit
83. The permittee shall submit a notification to the Administrator of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)] Federally Enforceable Through Title V Permit
84. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
85. The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60.7(f) recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports and records. [40 CFR 60.7(f)] Federally Enforceable Through Title V Permit
86. Permittee shall keep a monthly record of the type and quantity of each fuel used and the higher heating value of each fuel, as determined by Section 6.3 of Rule 4352, or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
87. Beginning January 31, 2016, HCL emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
88. Beginning January 31, 2016, mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit

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89. Beginning January 31, 2016, CO emissions shall not exceed 1500 ppmvd @ 3% O₂ on a 3-run source test average (1-hr minimum sampling time) except during periods of startup and shutdown, or shall not exceed 720 ppmvd @ 3% O₂ on a 30-day rolling CEMS average except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
90. Beginning January 31, 2016, Filterable PM shall not exceed 0.0371b/MMBtu except during periods of startup and shutdown, or TSM (Total Selected Metals as Defined in 40 CFR 63 Subpart DDDDD) shall not exceed 0.00024 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
91. By January 31, 2016, permittee shall perform an initial tune-up of the boiler as specified in 40 CFR 63.7540. If this unit is equipped with a continuous oxygen trim system, permittee shall perform a tune-up of the boiler every five years, as specified in 40 CFR 63.7540. If this unit is not equipped with a continuous oxygen trim system, permittee shall perform a tune-up of the boiler every year, as specified in 40 CFR 63.7540. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
92. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
93. Beginning January 31, 2016, permittee shall operate all continuous monitoring systems during startup of the boiler. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
94. Beginning January 31, 2016, permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, dry scrubber, fabric filter, selective non-catalytic reduction, and selective catalytic reduction. Those systems shall be started as expeditiously as possible. Startup ends when steam or heat is supplied for any purpose. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
95. Beginning January 31, 2016, permittee shall vent emissions to the main stack(s) when firing biomass during shutdown and shall continue to operate all applicable control devices except limestone injection in fluidized bed combustion boilers, dry scrubber, fabric filter, selective non-catalytic reduction, and selective catalytic reduction. Permittee shall collect monitoring data during periods of shutdown as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of shutdown. Permittee shall provide reports concerning activities and periods of shutdown, as specified in 40 CFR 63.7555. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
96. Permittee shall comply with the applicable testing, monitoring, recordkeeping, reporting, and notification requirements of 40 CFR 63 Subpart DDDDD. Permittee shall submit a testing and monitoring plan to the District by January 1, 2016, detailing the method the permittee has chosen to comply with the testing and monitoring requirements of 40 CFR 63 Subpart DDDDD. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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97. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
98. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [District Rule 4001] Federally Enforceable Through Title V Permit
99. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1080, Sections 4, 6.5, 6.6, 6.7, 7.2, 8.0, 9.0, and 10. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
100. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4201. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
101. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4301, Sections 5.1, 5.2.2, and 5.2.3. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
102. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-2-4

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:
EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 407 (San Joaquin)] Federally Enforceable Through Title V Permit
3. This engine shall be used exclusively for fire fighting purposes. [District Rule 4702, 4.3.1] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. The permittee may operate the emergency engine up to 50 hours per year in non-emergency situations for required regulatory purposes, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. The engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. All records shall be maintained and retained on-site for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-4-6

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:
ASH AND FUEL STORAGE AREA

PERMIT UNIT REQUIREMENTS

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

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-5-5

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-6-6

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-7-6

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. Visible emissions from the dust collector serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Limestone/Lime shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The pneumatic transfer components and connections shall be totally dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The storage silo shall be totally dust tight and vented only through the dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of lime/limestone received shall not exceed 25 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration shall not exceed 0.0049 pounds per ton of lime/limestone received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of lime/limestone received shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Visible emissions from the dust collector serving the storage silo shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-8-6

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS

PERMIT UNIT REQUIREMENTS

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-9-4

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The engine shall be equipped with a turbocharger. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, 40 CFR Part 60, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. The engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

22. All records shall be maintained and retained on-site for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-12-6

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. This silo shall be used to store an absorbent material such as sodium carbonate, sodium bicarbonate, or other similar (non-HAP) material for use as a flue gas conditioner prior to the electrostatic precipitator. The material shall not contain any hazardous air pollutant (HAP). The most recent product data sheets or MSDSs shall be kept on-site and shall be presented to the District upon request. [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.0] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of material received shall not exceed 48 tons in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0049 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the amount of material received into the storage silo shall be maintained and updated daily. [District NSR and 1070 Rules] Federally Enforceable Through Title V Permit
11. Visible emissions shall be inspected annual during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

13. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-13-2

EXPIRATION DATE: 07/31/2021

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

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

**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
Thermal Energy Development Partnership LP
N-1026**

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TITLE V PERMIT RENEWAL EVALUATION

Biomass to Electric Generation Facility

Engineer: Jagmeet Kahlon
Date: April 03, 2017

Facility Number: N-1026
Facility Name: Thermal Energy Development Partnership, LP
Mailing Address: 14800 W Schulte Rd
Tracy, CA 95377

Contact Name: James R. Huffman
Title: VP of California Operations
Phone: (916) 596-2508

Responsible Official: James R. Huffman
Title: VP of California Operations

Project # : N-1160022
Deemed Complete: January 13, 2016

I. PROPOSAL

Thermal Energy Development Partnership, LP submitted a permit application to renew their Title V permit. During this renewal process, the existing permits will be reviewed and revised to include up to date requirements of all applicable District, State and Federal rules that were adopted or amended since the issuance of the previous Title V permit on January 31, 2012.

The purpose of this document 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. This document also identifies all additions, deletions, streamlining, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

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

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 has requested to use the following model general permit templates:

A. Template SJV-UM-03 Facility-wide Umbrella

The applicant has requested to utilize template SJV-UM-03, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

Conditions 1 through 40 in facility-wide permit requirement permit N-1026-0-4 including their underlying applicable requirements originate from template SJV-UM-0-3 and are not subject to further EPA or public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

The following rules are updated since the previous Title renewal on January 31, 2012.

- District Rule 2020, Exemptions
(Amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule
(Amended February 18, 2016)
- District Rule 4702, Internal Combustion Engines
(Amended November 14, 2013)
- 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
(Amended February 27, 2014)
- 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engine
(Amended February 27, 2014)
- 40 CFR Part 63 Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
(Amended November 20, 2015)
- 40 CFR Part 63 Subpart JJJJJJ, National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
(Amended September 14, 2016)
- 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
(Amended February 27, 2014)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

- 40 CFR Part 82, Subpart B, Serviceing of Motor Vehicle Air Conditioners
(Amended June 25, 2013)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction
(Amended June 25, 2013)

B. Rules Removed

There are no applicable rules that were removed since the previous Title V renewal.

C. Rules Added

None

D. Rules Not Updated

- District Rule 1070, Inspections
(Amended December 17, 1992)
- District Rule 1080, Stack Monitoring
(Amended December 17, 1992)
- District Rule 1081, Source Sampling
(Amended December 16, 1993)
- District Rule 2010, Permits Required
(Amended December 17, 1992)
- District Rule 2031, Transfer of Permits
(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 2410, Prevention of Significant Deterioration
(Effective November 26, 2012)
- District Rule 2520, Federally Mandated Operating Permits
(Amended June 21, 2001)

- District Rule 4101, Visible Emissions
(Amended February 17, 2005)
 - District Rule 4201, Particulate Matter Concentration
(Amended December 17, 1992)
 - District Rule 4301, Fuel Burning Equipment
(Amended December 17, 1992)
 - District Rule 4352, Solid Fuel Fired Boilers, Steam Generators and Process Heaters
(Amended December 15, 2011)
 - District Rule 4601, Architectural Coatings
(Amended December 17, 2009)
 - District Rule 4701, Internal Combustion Engines – Phase 1
(Amended August 21, 2003)
 - District Rule 4801, Sulfur Compounds
(Amended December 17, 1992)
 - District Rule 7012, Hexavalent Chromium – Cooling Towers
(Amended December 17, 1992)
-
- District Rule 8011, General Requirements
(Amended August 19, 2004)
 - District Rule 8021, Construction, Demolition, Excavation, Extraction and Other Earthmoving Activities
(Amended August 19, 2004)
 - District Rule 8031, Bulk Materials
(Amended August 19, 2004)
 - District Rule 8041, Carryout and Trackout
(Amended August 19, 2004)
 - District Rule 8051, Open Areas
(Amended August 19, 2004)
 - District Rule 8061, Paved and Unpaved Roads
(Amended August 19, 2004)

- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
(Amended August 19, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
(Amended July 20, 2004)

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 1100, Equipment Breakdown
(Amended December 17, 1992)
- District Rule 1160, Emission Statements
(Adopted November 18, 1992)
- District Rule 2040, Applications
(Amended December 17, 1992)
- District Rule 4102, Nuisance
(Amended December 17, 1992)
- Title 17 California Code of Regulations (CCR) Section 93115, Airborne Toxic Control Measure for Stationary Compression Ignition Engines
(Effective May 19, 2011)

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 previous Title V actions.

District Rule 2020, Exemptions

The proposed rule amendment in District Rule 2020 (12/18/2014) Final draft staff report ([http://www.valleyair.org/Workshops/postings/2014/12-18-14_2020/Rule-2020-final-draft-staff-report_\(2014-11-18\).pdf](http://www.valleyair.org/Workshops/postings/2014/12-18-14_2020/Rule-2020-final-draft-staff-report_(2014-11-18).pdf), Page 7 & 8) were reviewed; none of these amendments require any changes to the permit requirements for this facility. Therefore, no further discussion is required.

District Rule 2201, New and Modified Stationary Source Review Rule

This rule applies to all new stationary sources and all modifications to existing stationary sources which are subject to the District permit requirements and after construction emit or may emit one or more affected pollutant. The requirements of this rule in effect on the date the application is determined to be complete by the Air Pollution Control Officer (APCO) shall apply to such application.

District Rule 2201 has been amended since this facility's previous Title V permit was issued. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any New Source Review (NSR) permit actions have already been incorporated into the current Title V permit. Therefore, the requirements for new and modified units to which this version of the rule applies are up-to-date, and no additional conditions are required.

District Rule 4702, Internal Combustion Engines

Section 2.0 - Applicability

This rule applies to any internal combustion engine rated at 25 brake horsepower (bhp) or greater.

N-1026-2:

Per application review under project N-1100307, the engine rated at 196 bhp. Thus, this rule is applicable to this unit. Note that this engine powers a fire pump assembly.

N-1026-9:

The engine is rated at 89.2 bhp. Therefore, this rule is applicable to this unit. Note that this engine powers an emergency electrical generator.

Section 4.0 – Exemptions

N-1026-2:

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

- The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood; and
- Except for operations (stated above), the engine is limited to operate no more than 100 hours per calendar year as determined by an operational non-resettable elapsed time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine; and
- The engine is operated with an operational non-resettable elapsed time meter or other APCO approved alternative method.

The following table summarizes the conditions that enforce on-going compliance with section 4.3.

Permit #	Conditions
N-1026-2-4	3, 7 and equipment description

Since the engine was not required to comply with section 5.9 of this rule, the following condition has been revised.

Condition 11 in PTO N-1026-2-3

- This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [40 CFR 63 Subpart ZZZZ]

****Revised condition****

- The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the

maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [40 CFR 63 Subpart ZZZZ]

Section 6.2.3 requires that an owner claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following:

- Total hours of operation,
- The type of fuel used,
- The purpose for operating the engine,
- For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and
- Other support documentation necessary to demonstrate claim to the exemption.

The following table summarizes condition(s) that enforce on-going compliance with this section:

Permit #	Conditions
N-1026-2-4	6, 7

Compliance is expected with this rule.

Note that the following conditions were removed from this permit since they are already included in the facility wide permit N-1026-0-4.

- **No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]**
- **No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]**

N-1026-9:

Pursuant to Section 4.2, except for the requirements of Sections 5.9 and 6.2.3, the requirements of this rule shall not apply to an “emergency standby engine”

(section 3.15) or a “low-use engine” (section 3.26), provided that the engine is operated with an operating non-resettable elapsed time meter or other APCO approved alternative.

Section 5.9 requires complying with the following requirements:

- Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.
- Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.
- Install and operate a non-resettable elapsed time meter or other APCO approved alternative device.

The following table summarizes condition(s) that enforce on-going compliance with this section:

Permit #	Conditions
N-1026-9-4	9, 10, 11

Note that the following conditions were removed from this permit since they are already included in the facility wide permit N-1026-0-4.

- No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
- No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

Compliance is expected with this rule.

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

This subpart apply to any steam generating unit with a maximum heat input of greater than 100 MMBtu/hr that has commenced construction, modification, or reconstruction after June 19, 1984.

Boiler under permit N-1026-1 is subject to the requirements of this rule.

Section 60.42b - Standard for sulfur dioxide (SO₂)

Section 60.42b(k)(1) states that except as provided in paragraphs (k)(2), (k)(3), and (k)(4) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date

comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, natural gas, a mixture of these fuels, or a mixture of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that contain SO₂ in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 8 percent (0.08) of the potential SO₂ emission rate (92 percent reduction) and 520 ng/J (1.2 lb/MMBtu) heat input.

Review of past permitting actions indicate that the boiler was not modified or reconstructed¹ after February 28, 2005; therefore, the unit is not subject to the SO₂ standard in the above paragraph.

Section 60.43b - Standard for particulate matter (PM)

Section 60.43b(c)(1) requires that no owner or operator of an affected facility that commenced construction, reconstruction, or modification on or before February 28, 2005, and that combusts wood, or wood with other fuels, except coal, shall cause to be discharged from that affected facility any gases that contain PM in excess of 43 ng/J (0.10 lb/MMBtu) heat input if the affected facility has an annual capacity factor greater than 30 percent (0.30) for wood.

This boiler is primarily fueled on biomass (i.e. wood) fuel, so it is subject to the 0.10 lb/MMBtu PM standard. The existing PTO limits boiler's PM emissions to 8.75 lb/hr, which was equated to 0.034 lb-PM/MMBtu² in previous permitting actions. The permit does not include this standard; however, this section requires complying with 0.1 lb-PM/MMBtu. Therefore, the standard limit is being included in the permit as part of this project.

- **PM emissions from the boiler shall not exceed 43ng/J (0.1 lb/MMBtu). [40 CFR Part 60.43b(c)(1)]**

Source testing conducted on 11/12/2013 indicates 0.0001 lb-PM/MMBtu of filterable particulate matter emissions for 40 CFR Part 60 Subpart Db purpose. Given that there is a significant margin of compliance between the tested number and the PM standard in 40 CFR 60 Subpart Db, continued compliance is expected.

Section 60.43b(f) states that on and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, 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

¹ "Modification" and "Reconstruction defined in sections 40 CFR 60.2, 60.14 and 60.15.

² 8.75 lb-PM/hr ÷ 259 MMBtu/hr = 0.034 lb-PM/MMBtu

20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. An owner or operator of an affected facility that elects to install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to the requirements of this subpart and is subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less is exempt from the opacity standard specified in this paragraph.

Section 60.43b(g) states the PM and opacity standards apply at all times, except during periods of startup, shutdown, or malfunction.

Condition 1 in the draft permit N-1026-1-18 ensures on-going compliance with the above sections.

Note that the boiler is not subject to the PM standards in sections 60.43b(h)(1), (h)(2) and (h)(4) as it was not reconstructed or modified after February 28, 2005.

Section 60.44b - Standard for nitrogen oxides (NO_x)

Section 60.44b(d) states on and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that simultaneously combusts natural gas and/or distillate oil with a potential SO₂ emissions rate of 26 ng/J (0.060 lb/MMBtu) or less 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 NO_x in excess of 130 ng/J (0.30 lb/MMBtu) heat input unless the affected facility has an annual capacity factor for natural gas, distillate oil, or a mixture of these fuels 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, distillate oil, or a mixture of these fuels.

The existing permit requires that natural gas fuel usage shall be limited to an annual capacity factor of 10% or less. Therefore, this boiler is not subject to the NO_x standard in the above paragraph. Condition 10 in the draft permit N-1026-1-19 enforces on-going compliance with the annual capacity factor limit.

Section 60.45b - Compliance and performance test methods and procedures for sulfur dioxide

Since there is no SO₂ standard listed for units that combust wood fuel in combination with natural gas fuel, there are no applicable compliance and performance test methods and procedures for this boiler.

Section 60.46b - Compliance and performance test methods and procedures for particulate matter and nitrogen oxides

(a) The PM emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The NO_x emission standards under §60.44b apply at all times.

Condition 1 in the draft permit N-1026-1-18 requires that the opacity standard applies during all times except during periods of startup, shutdown, or malfunction. The boiler is not subject any NO_x emissions standards. Therefore, continued compliance is expected.

(b) Compliance with the PM emission standards under §60.43b shall be determined through performance testing as described in paragraph (d) of this section, except as provided in paragraph (i) of this section.

(c) Compliance with the NO_x emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

The boiler is not subject to NO_x standards in this subpart, therefore, no further discussion is required.

(d) To determine compliance with the PM emission limits and opacity limits under §60.43b, the owner or operator of an affected facility shall conduct an initial performance test as required under §60.8, and shall conduct subsequent performance tests as requested by the Administrator, using the following procedures and reference methods:

(1) Method 3A or 3B of appendix A-2 of this part is used for gas analysis when applying Method 5 of appendix A-3 of this part or Method 17 of appendix A-6 of this part.

Condition 33 in draft permit N-1026-1-18 enforces on-going compliance with this section.

(2) Method 5, 5B, or 17 of appendix A of this part shall be used to measure the concentration of PM as follows:

(i) Method 5 of appendix A of this part shall be used at affected facilities without wet flue gas desulfurization (FGD) systems; and

(ii) Method 17 of appendix A-6 of this part may be used at facilities with or without wet scrubber systems provided the stack gas temperature does not exceed a temperature of 160 °C (320 °F). The procedures of sections 8.1 and

11.1 of Method 5B of appendix A-3 of this part may be used in Method 17 of appendix A-6 of this part only if it is used after a wet FGD system. Do not use Method 17 of appendix A-6 of this part after wet FGD systems if the effluent is saturated or laden with water droplets.

(iii) Method 5B of appendix A of this part is to be used only after wet FGD systems.

Condition 36 in draft permit N-1026-1-18 enforces on-going compliance with this section. Note CARB Method 5 is required to measure total particulate matter emissions.

(3) Method 1 of appendix A of this part is used to select the sampling site and the number of traverse sampling points. The sampling time for each run is at least 120 minutes and the minimum sampling volume is 1.7 dscm (60 dscf) except that smaller sampling times or volumes may be approved by the Administrator when necessitated by process variables or other factors.

The following condition will ensure on-going compliance with this section:

- **EPA method 1 shall be used to select the sampling site and number of traverse sampling points. The sampling time for each particulate matter run is at least 120 minutes minimum sampling volume is 1.7 dscm (60 dscf) except that smaller sampling times or volumes may be approved by the District when necessitated by process variables or other factors. [40 CFR Part 60.46b(3)]**

Further, the source test method summary in the performance report indicate the source testing contractor used 120 minutes for measuring PM emissions using CARB Method 5 and PM10 emissions using EPA 201A/202. Therefore, continued compliance is expected.

(4) For Method 5 of appendix A of this part, the temperature of the sample gas in the probe and filter holder is monitored and is maintained at 160 ± 14 °C (320 ± 25 °F).

CARB Method 5 is used to determine the total particulate matter emissions. Particulate matter is withdrawn isokinetically from the source and collected on a glass fiber filter maintained at a temperature in the range of 120 ± 14 °C (248 ± 25 °F). Since the temperature requirement in the subpart is greater than the test method, the existing condition will be revised (see underlined portion):

- **Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not**

include ammonia sulfate compounds. The temperature of the sample gas in the probe and filter holder is monitored and is maintained at 160±14 °C (320±25 °F). [District Rule 2201 and 40 CFR Part 60.46b(d)(4)]

(5) For determination of PM emissions, the oxygen (O₂) or CO₂ sample is obtained simultaneously with each run of Method 5, 5B, or 17 of appendix A of this part by traversing the duct at the same sampling location.

The following condition will ensure on-going compliance with this section:

- **For determination of PM emissions, O₂ or CO₂ sample shall be obtained simultaneously with each run of Method 5 by traversing the duct at the same sampling location. [40 CFR Part 60.46b(d)(5)]**

(6) For each run using Method 5, 5B, or 17 of appendix A of this part, the emission rate expressed in ng/J heat input is determined using:

(i) The O₂ or CO₂ measurements and PM measurements obtained under this section;

(ii) The dry basis F factor; and

(iii) The dry basis emission rate calculation procedure contained in Method 19 of appendix A of this part.

- **PM emissions rate in lb/MMBtu shall be determined using O₂ or CO₂ measurements and PM measurements, dry basis F factor and dry basis emission rate calculation procedure contained in Method 19. [40 CFR Part 60.46b(d)(6)]**

(7) Method 9 of appendix A of this part is used for determining the opacity of stack emissions.

The boiler is equipped with continuous opacity monitoring system (COMS). Therefore, visual emissions evaluation Method 9 is not listed in the permit.

(e) To determine compliance with the emission limits for NO_x required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring NO_x under §60.48(b).

The boiler is not subject to NO_x standards in this subpart, therefore, no further discussion is required.

This boiler is not subject to Sections (f), (g), (h) and (i). Furthermore, the facility is not proposing CEMS for monitoring PM emissions discharged into the atmosphere; therefore, no further discussion is required under paragraph (j) of this section.

§ 60.47b Emission monitoring for sulfur dioxide

Since there is no SO₂ standard listed for units that combust wood fuel in combination with natural gas fuel, there are no applicable emission monitoring requirements for this boiler.

§ 60.48b Emission monitoring for particulate matter and nitrogen oxides

(a) Except as provided in paragraph (j) of this section, the owner or operator of an affected facility subject to the opacity standard under §60.43b shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. The owner or operator of an affected facility subject to an opacity standard under §60.43b and meeting the conditions under paragraphs (j)(1), (2), (3), (4), (5), or (6) of this section who elects not to use a COMS shall conduct a performance test using Method 9 of appendix A-4 of this part and the procedures in §60.11 to demonstrate compliance with the applicable limit in §60.43b by April 29, 2011, within 45 days of stopping use of an existing COMS, or within 180 days after initial startup of the facility, whichever is later, and shall comply with either paragraphs (a)(1), (a)(2), or (a)(3) of this section. The observation period for Method 9 of appendix A-4 of this part performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.

This boiler is equipped with COMS that complies with the requirements of this subpart. Condition 50 in draft permit N-1026-1-18 ensures on-going compliance with the requirements of this section.

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility subject to a NOX standard under §60.44b shall comply with either paragraphs (b)(1) or (b)(2) of this section.

This boiler is not subject to the NOx standard in this subpart; therefore, no further discussion is required.

(e)(1) requires that procedure under section 60.13 shall be followed for installation, evaluation and operation of the continuous monitoring system and the span values for a COMS shall be between 60 and 80%.

Condition 50 in the draft permit N-1026-1-18 ensures on-going compliance with this section.

The boiler is not subject to the requirements in sections (c), (d), (e)(2), (e)(3), (f), (g), (h), (i), (j), (k), and (l) of this section. Therefore, no further discussion is required.

§ 60.49b Reporting and recordkeeping requirements

Section 60.49b(a) states that the owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility;

(2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §§60.42b(d)(1), 60.43b(a)(2), (a)(3)(iii), (c)(2)(ii), (d)(2)(iii), 60.44b(c), (d), (e), (i), (j), (k), 60.45b(d), (g), 60.46b(h), or 60.48b(i);

(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired; and

(4) Notification that an emerging technology will be used for controlling emissions of SO₂.

This facility was originally permitted in 1987 long before the District unification in 1992; it is presumed that all initial notification requirements were fulfilled. Note that the design heat input capacity is listed in the equipment description in the draft permit N-1026-1-18. The operator is required to maintain records of amount of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. Further, the unit is not subject to any SO₂ emission standard.

Section 60.49b(b) states that the owner or operator of each affected facility subject to the SO₂, PM, and/or NO_x emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in Appendix B of this part.

The boiler under permits N-1026-1 is an existing unit that has been tested several times in the past. The existing permit requires the performance test

results be submitted within 60 days after the test. Therefore, continued compliance is expected.

Section 60.49b(d) states that except as provided in paragraph (d)(2) of this section, the owner or operator of an affected facility shall record and maintain records as specified in paragraph (d)(1) of this section.

(1) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste 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.

(2) As an alternative to meeting the requirements of paragraph (d)(1) of this section, the owner or operator of an affected facility that is subject to a federally enforceable permit restricting fuel use to a single fuel such that the facility is not required to continuously monitor any emissions (excluding opacity) or parameters indicative of emissions may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

Condition 65 in the draft permit N-1026-1-18 enforces on-going compliance with this section.

(f) For an affected facility subject to the opacity standard in §60.43b, the owner or operator shall maintain records of opacity. In addition, an owner or operator that elects to monitor emissions according to the requirements in §60.48b(a) shall maintain records according to the requirements specified in paragraphs (f)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.

(1) For each performance test conducted using Method 9 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (f)(1)(i) through (iii) of this section.

(i) Dates and time intervals of all opacity observation periods;

(ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

(iii) Copies of all visible emission observer opacity field data sheets;

(2) For each performance test conducted using Method 22 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (f)(2)(i) through (iv) of this section.

- (i) Dates and time intervals of all visible emissions observation periods;
 - (ii) Name and affiliation for each visible emission observer participating in the performance test;
 - (iii) Copies of all visible emission observer opacity field data sheets; and
 - (iv) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.
- (3) For each digital opacity compliance system, the owner or operator shall maintain records and submit reports according to the requirements specified in the site-specific monitoring plan approved by the Administrator.
- (h) The owner or operator of any affected facility in any category listed in paragraphs (h)(1) or (2) of this section is required to submit excess emission reports for any excess emissions that occurred during the reporting period.
- (1) Any affected facility subject to the opacity standards in §60.43b(f) or to the operating parameter monitoring requirements in §60.13(i)(1).
- (2) Any affected facility that is subject to the NO_x standard of §60.44b,

Section 60.49b(v) states the owner or operator of an affected facility may submit electronic quarterly reports for SO₂ and/or NO_x and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. The following condition(s) will be included in the permits:

- **The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission**

standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [40 CFR 60.49b(v)]

Section 60.49b(w) states the reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

The reports are required to be submitted on a quarterly basis. Therefore, compliance is expected with this section. Please refer to the condition under section 60.48b(g) above.

Note that this unit is not subject to sections 60.49b(c), (e), (g) , (i), (j), (k), (l), (m), (n), (p), (q), (r), (s), (t), (u) and (x) and (y).

Compliance is expected with this Regulation.

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

§ 60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

- (i) 2007 or later, for engines that are not fire pump engines;
- (ii) The model year listed in Table 3 to this subpart or later model year, for fire pump engines (i.e., starting 2009 year model for $175 \leq \text{HP} \leq 750$).

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

- (i) Manufactured after April 1, 2006, and are not fire pump engines, or

- (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
- (3) Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.
- (4) The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

Based on the information in District's permit database, the owner or operator had commenced construction of the engines under permits N-1026-2 and '-9 prior to July 11, 2005. Therefore, these engines are not subject to the requirements of this subpart.

40 CFR Part 63 Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

§63.7485 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP, except as specified in §63.7491. For purposes of this subpart, a major source of HAP is as defined in §63.2, except that for oil and natural gas production facilities, a major source of HAP is as defined in §63.7575.

This facility is a major source of HAP emissions³. Therefore, this boiler is subject to the requirements of this subpart. Conditions 87 through 96 in draft permit N-1026-1-18 enforce ongoing compliance with this subpart. Note that the boiler is not operating since July 2015, and is designated as dormant emission unit at this time.

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

The facility is not an area source of HAP emissions. Therefore, boiler under permit N-1026-1 is not subject to the requirements of this subpart. The existing permit N-1026-1-16, condition 75, which is related to this subpart has been removed from the permit.

³ Potential emissions from single HAP (HCl emissions) are greater than 10 tons/yr.

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

§ 63.6585 Am I subject to this subpart?

This subpart applies to owners and operators of stationary reciprocating internal combustion engines (RICE) operated at a major or area source of Hazardous Air Pollutant (HAP) emissions.

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

Section (c) states an area source of HAP emissions is a source that is not a major source.

As stated previously, this facility is a major source of HAP emissions.

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

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

(1) *Existing stationary RICE*

- (i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.
- (ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

- (iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) *New stationary RICE*

- (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.
- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.
- (iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

Based on the information the District's permit database, the engines under N-1026-2 and '-9 were installed before June 12, 2006. Therefore, these engines are existing units under this subpart.

Section (c) Stationary RICE subject to Regulations under 40 CFR Part 60
An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

- (1) A new or reconstructed stationary RICE located at an area source;
- (2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;

- (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

The engines under permits N-1026-2 (196 bhp) and '9 (89.2 bhp) are not subject to requirements in 40 CFR part 60 subpart IIII (discussed previously). Therefore, further evaluation is required to determine the applicable requirements under this subpart.

§63.6602 What emission limitations and other requirements must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

The following condition(s) ensures on-going compliance with the requirements in Table 2c. The engines are not subject to the numerical emission limitations in this subpart.

- **The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR Part 63 Subpart ZZZZ]**
- **The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number,**

viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ]

- The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ]
- The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ]
- The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ]

§63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?

Section (b) states that beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

40 CFR 80.510(b) states that diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

- (i) 15 ppm maximum for non-road diesel fuel.
- (ii) 500 ppm maximum for locomotive diesel fuel.

(2) Cetane index or aromatic content, as follows:

- (i) A minimum cetane index of 40; or
- (ii) A maximum aromatic content of 35 volume percent.

The engines under permits N-1026-2 and '-9 are compression ignition engines, and are required to use CARB certified diesel containing no more than 15 ppmv sulfur by weight. Furthermore, the CARB diesel fuel specification requires no more than 10 v% of aromatic hydrocarbon content (<http://www.arb.ca.gov/enf/fuels/dieselspecs.pdf>). The following condition ensures on-going compliance with this section.

- **Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ]**

§63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) 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 which 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 ensures on-going compliance with this section:

- **The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the**

maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ]

§63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

For engine under permit N-1026-2, and '-9, there are no applicable emissions limitations to comply from this subpart. As such, no initial performance tests are required.

§63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

Section (e)(3) states that An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The following condition in permits N-1026-2 and '-9 ensure on-going compliance with this section:

- **The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ]**

Section (f) states that if you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a

major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

The following condition in permits N-1026-2 and '-9 ensures on-going compliance with this section.

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

Section (h) states if you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. The following condition in permits N-1026-2 and '-9 ensures on-going compliance with this section:

- **The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ]**

§63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?

Section (a) states that you must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to you according to Table 5 of this subpart.

Section (b) states during the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.

Section (c) states that you must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

The engine under permit N-1026-2 and '-9 are not subject to the items in Tables 1b, 2b and 5 of this subpart. Therefore, no further discussion is required.

§63.6640 How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

- (a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.
- (b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.
- (e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

The engines under permit N-1026-2 and '-9 are not subject to emissions or operating limitations in this subpart. Therefore, no further discussion is required.

§63.6645 What notifications must I submit and when?

- (a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following:

- (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
- (2) An existing stationary RICE located at an area source of HAP emissions.
- (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
- (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

§§63.7(b) and (c) covers notification of performance test and quality assurance program, 63.8(e) covers performance evaluation of continuous monitoring systems, (f)(4) covers the use of alternative monitoring procedures and (f)(6) covers alternative to the relative accuracy test, 63.9(b) through (e) covers initial notifications when a source becomes subject to a relevant standard (i.e., The notification, which shall be submitted not later than 120 calendar days after the effective date of the relevant standard or within 120 calendar days after the source becomes subject to the relevant standard), 63.9 (g) covers additional notification requirements for sources with continuous monitoring systems, and 63.9(h) covers notification of compliance status.

The engines under permit N-1026-2 and '-9 are not subject to emissions or operating limitations in this subpart. However, they are subject to the other management practices in this subpart, and are expected to comply with those requirements.

§63.6650 What reports must I submit and when?

- (a) You must submit each report in Table 7 of this subpart that applies to you.
- (b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.
- (c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
- (d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission

or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

- (e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.
- (f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.
- (g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.
- (h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.

Table 7 of this subpart does not have a category covering the engine under permit N-1026-2 and '-9. Additionally, these engines are not subject to emissions or operating limitations in this subpart.

§63.6655 What records must I keep?

Section (e) states that you must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained

the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE:

- (1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.
- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

The following condition will be included in permits N-1026-2 and '9:

- **The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ]**

§63.6660 In what form and how long must I keep my records?

- (a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
- (b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

The following condition in permits N-1026-2 and '9 ensure on-going compliance with this section:

- **All records shall be maintained and retained on-site for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ]**

Note that “On and after May 3, 2013...” phrase has been removed from the requirements referencing 40 CFR 63 Subpart ZZZZ along with removal of the following conditions:

- On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ]
- On and after May 3, 2013, the permittee shall keep a copy of each notification and report that was submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in Section 63.10(b)(2)(xiv). [40 CFR 63 Subpart ZZZZ]
- On and after May 3, 2013, the permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ]

Please refer to §63.6655 for maintenance record requirement.

Compliance is expected with this subpart.

40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC). These requirements are addressed in condition 35 of draft Title V permit N-1026-0-4.

40 CFR Part 82, Subpart F, Recycling and Emissions Reduction

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC). These requirements are addressed in condition 27 of draft Title V permit N-1026-0-4.

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

40 CFR Part 64 requires CAM for units that meet the following three criteria:

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

NO_x: 20,000 lb/yr
SO_x: 140,000 lb/yr
PM₁₀: 140,000 lb/yr
CO: 200,000 lb/yr
VOC: 20,000 lb/yr

N-1026-1: BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR AND EQUIPPED WITH A MULTICLONE AND ELECTROSTATIC PRECIPITATOR, LIME/LIMESTONE INJECTION, AND SELECTIVE NON-CATALYTIC REDUCTION SYSTEM

CO and VOC:

This unit has emissions limits for CO and VOC emissions, but does not have add-on control equipment to reduce CO and VOC emissions. Therefore, this unit is not subject to CAM for CO and VOC emissions.

NO_x, SO_x and PM₁₀:

The unit is subject to CAM for NO_x, SO_x, and PM₁₀, as it is equipped with lime/limestone injection system, electrostatic precipitator and selective non-catalytic reduction systems. Furthermore, the pre-control emissions are conservatively presumed to be above the respective major source threshold for each pollutant. Therefore, this unit is subject to the CAM requirements for NO_x, SO_x and PM₁₀ emissions.

This unit is equipped continuous emissions monitoring system for measuring NO_x and SO_x emissions. Further, continuous opacity monitoring system is used to monitor opacity of the exhaust discharge. The facility also monitors secondary voltage and secondary current to each electrostatic precipitator field. Therefore, CAM requirements are satisfied.

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

This engine is not equipped with any add-on control equipment. Therefore, this unit is not subject to CAM requirements.

N-1026-4: ASH AND FUEL STORAGE AREA

This operation is not equipped with any add-on control equipment. Therefore, this operation is not subject to CAM requirements.

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

This operation is not equipped with any add-on control equipment. Therefore, this operation is not subject to CAM requirements.

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

The system is equipped with add-on PM10 control equipment. The permit also has emissions limits for PM10 emissions. The pre-control potential PM10 emissions from this system are estimated as follows:

Flyash and ash conditioner handling emissions:

It is conservatively assumed that PM10 emissions are minimized by 99%. The pre-control emissions are:

$$\begin{aligned} &= (85 \text{ tons/day})(0.0117 \text{ lb-PM10/ton})(365 \text{ days/yr})/(1-0.99) \\ &= 36,299 \text{ lb-PM10/yr} \end{aligned}$$

Ash conditioner additive receiving emissions:

It is conservatively assumed that PM10 emissions are minimized by 99%. The pre-control emissions are:

$$\begin{aligned} &= (103.4 \text{ tons/day})(0.0039 \text{ lb-PM10/ton})(365 \text{ days/yr})/(1-0.99) \\ &= 14,719 \text{ lb-PM10/yr} \end{aligned}$$

The pre-control emissions from each operation are below the PM10 major source threshold of 140,000 lb/year. Therefore, these operations are not subject to any CAM requirements.

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

The system is equipped with add-on PM10 control equipment. The permit also has emissions limit for PM10 emissions. The pre-control potential PM10 emissions are estimated using PM10 control efficiency of 99% for the dust collector:

$$\begin{aligned} &= (25 \text{ tons/day})(0.0049 \text{ lb-PM10/ton})(365 \text{ days/yr})/(1-0.99) \\ &= 4,471 \text{ lb-PM10/yr} \end{aligned}$$

The pre-control emissions from this operation are below the PM10 major source threshold of 140,000 lb/year. Therefore, this operation is not subject to any CAM requirements.

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

The unloading station is equipped with a wet suppression system. Further, this permit has emission limit for PM10 emissions. The pre-control PM10 emissions are estimated by conservatively presuming 99% reduction due to the wet suppression system.

$$\begin{aligned} &= (1,530 \text{ tons/day})(0.0018 \text{ lb-PM10/ton})(365 \text{ days/yr})/(1-0.99) \\ &= 100,521 \text{ lb-PM10/yr} \end{aligned}$$

The pre-control emissions from this operation are below the PM10 major source threshold of 140,000 lb/year. Therefore, this operation is not subject to any CAM requirements.

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

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

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

The system is equipped with add-on PM10 control equipment. The permit also has emissions limit for PM10 emissions. The pre-control potential PM10 emissions are estimated using PM10 control efficiency of 99% for the dust collector:

$$\begin{aligned} &= (48 \text{ tons/day})(0.0049 \text{ lb-PM}_{10}/\text{ton})(365 \text{ days/yr})/(1-0.99) \\ &= 8,585 \text{ lb-PM}_{10}/\text{yr} \end{aligned}$$

The pre-control emissions from this operation are below the PM₁₀ major source threshold of 140,000 lb/year. Therefore, this operation is not subject to any CAM requirements.

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

The drift eliminator is an integral part of the cooling tower and passively controls drift from the cooling tower. Per the definition of control device from 40 CFR 64, a control device does not include passive control measures that act to prevent pollutants from forming. Therefore, District does not consider the drift eliminator an add-on control device; CAM is not applicable.

IX. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

By using the model general permit template(s) listed in Section IV of this evaluation, the applicant has requested that a permit shield be issued for requirements addressed in the template(s). The basis for each permit shield is discussed in the Permit Shield section of each template.

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested a permit shield based on any permit requirements or for any subsumed requirements. Therefore, no further discussion is necessary.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements. Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, being a Title V permit renewal, is a ministerial action that is exempt from CEQA.

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit

XII. ATTACHMENTS

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List
- D. Response to Applicant's Comments

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-1026-0-4

EXPIRATION DATE: 07/31/2016

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
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: THERMAL ENERGY DEV PARTNERSHIP LP

Location: 14800 W SCHULTE RD, TRACY, CA 95377

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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 Rules 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 Rules 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 Rules 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 Rules 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 Rules 8061 and 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 Rules 8071 and 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. The reporting period of the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of reporting period. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-1-18

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR AND EQUIPPED WITH A MULTICLONE AND ELECTROSTATIC PRECIPITATOR, LIME/LIMESTONE INJECTION, AND SELECTIVE NON-CATALYTIC REDUCTION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Except during periods of startup, shutdown, or malfunction, the permittee shall not discharge 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. Owners and operators of an affected facility that install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to Subpart Db and are subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less are exempt from the opacity standard specified in this paragraph. [40 CFR 60, Subpart Db] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301] Federally Enforceable Through Title V Permit
3. At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any effected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [District Rule 4352 and 40 CFR 60.11(d)] Federally Enforceable Through Title V Permit
4. The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The boiler shall utilize limestone/lime injection for SOx control and a thermal DeNOx system (selective non-catalytic reduction system) utilizing ammonia injection for NOx control. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The boiler shall be equipped with an automatic air/fuel ratio control system. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Natural gas fired burners shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. The natural gas burners shall be of staged combustion, low-NOx design. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Natural gas fuel usage shall be limited to an annual capacity factor of 10% or less based on the ratio of actual natural gas heat input and maximum potential heat input had the boiler unit been operating at maximum steady-state capacity for 8,760 hours per year. [District Rule 2201 and 40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit

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

10. Except during startup and shutdown, NO_x emissions shall not exceed 90 ppmv corrected to 3% O₂ and CO emissions shall not exceed 400 ppmv corrected to 3% O₂. Except during source tests, compliance with these emission limits shall be determined from CEMS data based on a block 24-hour average. During source tests, compliance with these emission limits shall be determined using the test methods and procedures specified elsewhere in this permit. [District Rule 4352] Federally Enforceable Through Title V Permit
11. The NO_x emissions shall not exceed 27.2 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The SO_x emissions shall not exceed 6.25 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The PM₁₀ emissions shall not exceed 8.75 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
14. PM emissions from the boiler shall not exceed 43 ng/J (0.1 lb/MMBtu). [40 CFR Part 60.43b(c)(1)] Federally Enforceable Through Title V Permit
15. The particulate matter emissions shall not exceed 8.75 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The CO emissions shall not exceed 74.4 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The CO emissions shall not exceed 1545.6 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The CO emissions shall not exceed 537,280 pounds per year. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The VOC emissions shall not exceed 12.8 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The ammonia emissions shall not exceed 100 ppm, by volume, at 3% O₂. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
21. A block 24-hour average is the arithmetic average of the hourly emission rates of a unit as measured over 24 one-hour periods, daily, from 12:00 AM to 11:59 PM, excluding periods of system calibration. [District Rule 4352] Federally Enforceable Through Title V Permit
22. The duration of each shutdown shall not exceed 12 hours per event. [District Rule 4352] Federally Enforceable Through Title V Permit
23. The duration of each startup shall not exceed 96 hours per event. 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. [District Rule 4352] Federally Enforceable Through Title V Permit
24. Startup is the period of time during which a unit is heated to the operating temperature and pressure from a shutdown or hot standby condition. Shutdown is the period of time during which a unit is taken from operational to non-operational status by allowing it to cool down from its operating temperature to an ambient temperature or to a hot standby condition. A hot standby condition is 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] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted to demonstrate compliance with the VOC (lb/hr), NO_x (lb/hr and ppmv), CO (lb/hr and ppmv), PM₁₀ (lb/hr), SO_x (lb/hr), particulate matter (lb/hr), and ammonia (ppmv) emission limits at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Compliance with the hourly emission rates for NO_x, CO, VOC, SO_x, PM₁₀, and particulate matter and the ammonia concentration while source testing shall be determined using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0. [District Rules 1081, 2201, and 4352] Federally Enforceable Through Title V Permit

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

27. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The pre-test plan shall outline the test methods, procedures, and operating parameters for each source test required. [District Rule 1081] Federally Enforceable Through Title V Permit
29. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
30. The permittee shall comply with the requirements for sampling facilities listed in District Rule 1081 Section 3.0 (amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of oxides of nitrogen (as NO₂) shall be conducted using EPA method 7E or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10, or CARB methods 10 or 100. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA methods 18 or 25, or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Source testing to measure concentrations of oxides of sulfur (SO_x) as SO₂ shall be conducted using EPA methods 6 or 8, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not include ammonia sulfate compounds. The temperature of the sample gas in the probe and filter holder is monitored and is maintained at 160±14 °C (320±25 °F). [District Rule 2201 and 40 CFR Part 60.46b(d)(4)] Federally Enforceable Through Title V Permit
37. Source testing to measure concentrations of PM₁₀ shall be conducted using EPA method 201 and 202, or EPA method 201a and 202, or CARB method 501 and 5. [District Rule 2201] Federally Enforceable Through Title V Permit
38. In lieu of performing a source test for PM₁₀, the results of the total particulate test may be used for compliance with the PM₁₀ emissions limit. [District Rule 2201] Federally Enforceable Through Title V Permit
39. For determination of PM emissions, O₂ or CO₂ sample shall be obtained simultaneously with each run of Method 5 by traversing the duct at the same sampling location. [40 CFR Part 60.46b(d)(5)] Federally Enforceable Through Title V Permit
40. PM emissions rate in lb/MMBtu shall be determined using O₂ or CO₂ measurements and PM measurements, dry basis F factor and dry basis emission rate calculation procedure contained in Method 19. [40 CFR Part 60.46b(d)(6)] Federally Enforceable Through Title V Permit
41. Source testing to measure stack gas velocity shall be conducted using EPA method 2 or CARB method 2. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Source testing to measure concentrations of NH₃ shall be conducted using Bay Area Air Quality Management District (BAAQMD) method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Solid fuel higher heating value (hhv) shall be determined by ASTM Method D 5865, or ASTM Method E 711. [District Rule 4352] Federally Enforceable Through Title V Permit
45. EPA method 1 shall be used to select the sampling site and number of traverse sampling points. The sampling time for each particulate matter run is at least 120 minutes minimum sampling volume is 1.7 dscm (60 dscf) except that smaller sampling times or volumes may be approved by the District when necessitated by process variables or other factors. [40 CFR Part 60.46b(3)] Federally Enforceable Through Title V Permit

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46. All emission measurements shall be made with the unit operating at condition representative of normal operations. No compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
47. The facility shall install, calibrate, maintain, and operate an oxygen or carbon dioxide continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [District Rules 1080, 2201, and 4352, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
48. When using measurements taken by the CO₂ analyzer for emission compliance determinations, the following formula shall be used to convert the emission concentration referenced at 12 percent CO₂ to an emission concentration referenced at 3 percent O₂: $E \text{ at } 3\%O_2 = E \text{ at } 12\%CO_2 \times (CO_2 \text{ F-Factor} \div O_2 \text{ F-Factor}) \times (100 \div 12) \times (20.9 - 3) \div 20.9$. Where, the CO₂ F-Factor is in terms of scf CO₂/MMBtu and the O₂ F-Factor is in terms of dscf/MMBtu at 0% O₂. Permittee may choose to use the default CO₂ and O₂ F-Factors for wood listed in 40 CFR Method 19, or may choose to use site-specific F-Factors. If using site specific F-Factors, permittee shall re-determine the site-specific F-Factors annually using at least 9 fuel samples. The site-specific F-Factors shall be determined in accordance with EPA Method 19. [District Rules 1080 and 2080, and 40 CFR 60]
49. Permittee shall keep records of site-specific F-Factor determinations, including the date of each determination, the corresponding CO₂ F-Factor, and the corresponding O₂ F-Factor. [District Rules 1080 and 2080, and 40 CFR 60] Federally Enforceable Through Title V Permit
50. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.48b, 40 CFR 60.13, and 40 CFR 60 Appendix B. The span value for the COMS shall be between 60% and 80%. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. [40 CFR 60.48b(a), 40 CFR 60.48b(e)(1), 40 CFR 64 and District Rule 1080] Federally Enforceable Through Title V Permit
51. The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 1080 and 2201, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
52. The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 2201, 1080, and 4352, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
53. The facility shall install, calibrate, maintain, and operate a carbon monoxide continuous emission monitoring system at the stack location of the combustion unit accordance with 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 1080 and 2201, and 40 CFR 60] Federally Enforceable Through Title V Permit
54. Except during the annual source test, compliance with the hourly emission limits of NO_x, CO, and SO_x shall be determined by the continuous monitoring and recording equipment and shall be based on a 24 hour rolling average. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
55. Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 64] Federally Enforceable Through Title V Permit
56. Within 96 hours, the operator shall report to the District any violation of the NO_x, CO, or SO_x emission standards indicated by the CEMS. [District Rule 1080] Federally Enforceable Through Title V Permit

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57. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
58. The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [40 CFR 60.49b(v)] Federally Enforceable Through Title V Permit
59. The permittee shall submit an excess emissions and monitoring systems performance report and-or summary report form to the EPA semiannually. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess opacity emissions and COMS downtime shall include the information listed in 40 CFR 60.7(c)(1) through (4). The summary report form shall contain the information listed in 40 CFR 60.7(d). [40 CFR 60.49b(h)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
60. Excess opacity emissions are defined as all 6-minute periods during which the average opacity exceeds 20 percent, except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.49(h)(3) and 60.43b(f)] Federally Enforceable Through Title V Permit
61. Operator shall notify the District no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
62. The permittee, shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard. [40 CFR 60.7(f)(1)] Federally Enforceable Through Title V Permit
63. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of CEMS shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit Reports, pursuant to 40 CFR 60 Appendix F, shall be submitted, to the District, along with the Quarterly CEMS Report. [District Rule 1080 and 40 CFR Appendix F] Federally Enforceable Through Title V Permit
64. The owner/operator shall perform a CEMS relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.1.1, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the CEMS equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. The permittee shall submit the RATA Report to the APCO; two copies of the RATA Report shall be submitted to USEPA Region IX. [District Rule 1080, 40 CFR 60.4(a), and 40 CFR 60, Appendix F] Federally Enforceable Through Title V Permit
65. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [District Rule 2201 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
66. Adequate amounts of agricultural waste which otherwise would be disposed of by open burning shall be used as boiler fuel to provide offsets at adequate ratios (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). [District Rule 2201] Federally Enforceable Through Title V Permit
67. The above ratios shall be used to mitigate the following daily emissions limits: PM - 263.7 lbs; NOx - 726.3 lbs; CO - 1,472 lbs; VOC - 314.8 lbs. [District Rule 2201] Federally Enforceable Through Title V Permit

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68. No later than December 1st of each calendar year, the permittee shall submit an Emission Offset Report to the District for the following calendar year. The Report shall include copies of creditable agricultural waste fuel purchase contracts for the following calendar year, including the quantity of offset credits they could generate, and the quantity of offset credits available from the Accrued Unused Offset Balance as determined by the Credit Accounting Report, as of October 1st of the current calendar year. The Report shall demonstrate that the quantity of all available and projected offsets to be generated for the following calendar year is equal or greater than the full amount of offsets required by this permit for the following calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
69. The amount of offsets required by this permit for the following calendar year is equal to the highest hourly, daily, monthly or annual emission rate limit contained in this permit for NO_x, SO_x, CO, VOC, PM and PM₁₀, calculated on an annualized basis. [District Rule 2201] Federally Enforceable Through Title V Permit
70. The permittee shall maintain a monthly Credit Accounting Report available for review by the District upon request. The Report shall demonstrate that sufficient credits were provided to fully offset the actual emissions emitted for each pollutant. The Report shall calculate each of the following monthly: Offset Credits Generated, Monthly Emission Rate, Offset Credit Surplus, Accrued Unused Offset Balance, and Expired Credits. The monthly calculations shall be completed by the 15th day of the following calendar month. The Offset Credits Generated shall be determined by multiplying the weight of each creditable fuel received with its respective open-burn emission factor and divide the resultant by the appropriate distance offset ratio (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). The Monthly Emission Rate shall be determined by multiplying the daily emission limit for each pollutant by the number of operating days in a month. The Offset Credit Surplus (or deficit) shall be determined by subtracting the Monthly Emission Rate from the Offset Credits Generated. The Accrued Unused Offset Balance shall be determined by summing the Offset Credit Surplus (or deficit) for each month, beginning in January 2001, and subtracting any Expired Credits. Expired Credits shall be determined by summing the Offset Credit Surplus (or deficit) for the previous 11 months and subtracting this value from the current Accrued Unused Offset Balance. Any positive value resulting from this calculation will determine the quantity of Expired Credits. [District Rule 2201] Federally Enforceable Through Title V Permit
71. The permittee shall maintain copies of each executed creditable agricultural waste fuel purchase contract. [District Rule 2201] Federally Enforceable Through Title V Permit
72. All such offset contracts shall become part of this Permit to Operate and shall be enforceable pursuant to the applicable rules and regulations. [District Rule 2201] Federally Enforceable Through Title V Permit
73. This unit shall only be fired on biomass, except that the unit may also be fired on natural gas during startup, shutdown, and flame stabilization periods. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
74. Biomass is defined as any organic material originating from plants, not treated with preservatives and not derived from fossil fuels, including but not limited to products, by-products, and residues from agriculture, forestry, aquatic and related industries, such as agricultural, energy or feed crops and residues, orchard and vineyard prunings and removal, stone fruit pits, nut shells, cotton gin trash, corn stalks and stover, straw, seedhulls, sugarcane leavings and bagasse, aquatic plants and algae, cull logs, eucalyptus logs, poplars, willows, switchgrass, alfalfa, bark, lawn, yard and garden clippings, paper (unprinted), leaves, silvicultural residue, tree and brush pruning, sawdust, timber slash, mill scrap, wood and wood chips, and wood waste. Biomass does not include tires, material containing sewage sludge, or industrial, hazardous, radioactive, or municipal solid waste. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
75. Wood waste consists of wood pieces or particles which are generated from the manufacturing or production of wood products, harvesting, processing or storage of raw wood materials, or construction and demolition activities. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
76. Urban wood waste (derived from construction and demolition or diverted from landfills) is approved as fuel provided the mixed urban wood waste fuel contains less than 1% by weight, of plastic, rubber, metals, roofing felt paper, and other non-wood contaminants (other than dirt or ash). No asbestos-containing materials are approved as fuel. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

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77. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year, as follows: equivalent of one truckload of mixed urban wood waste fuel prepared for combustion in the boiler (subject to District approval) shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified (plastic, rubber, metals, roofing felt paper, or other non-wood contaminants) and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
78. No putrescible material shall be received at this facility and/or combusted in the boiler. [District Rule 2201] Federally Enforceable Through Title V Permit
79. Prior notification and District approval shall be required upon any new fuel usage. [District Rule 2201] Federally Enforceable Through Title V Permit
80. Permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b) every two years. 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
81. All electrostatic precipitator fields shall be in operation whenever the boiler is operated. The electrostatic precipitator secondary voltage and secondary current settings shall be maintained at levels sufficient to demonstrate a corona power (estimated as secondary voltage, in KiloVolts, multiplied by secondary current, in Amperes) of at least 3.0 KilovoltAmperes in field #1, 5.0 KilovoltAmperes in field #2, 5.0 KilovoltAmperes in field #3 and 12.0 KilovoltAmperes in field #4. Transient corona power disruptions due to arcs and sparks, or similar automatic functions of the electrostatic precipitator, shall not constitute deviations. The electrostatic precipitator shall be maintained in accordance with the manufacturer's recommendations, a copy of which shall be maintained on site. [40 CFR 64] Federally Enforceable Through Title V Permit
82. The applicant shall record the secondary voltage and the secondary current for each electrostatic precipitator field at least four times daily. [40 CFR 64] Federally Enforceable Through Title V Permit
83. The permittee shall submit a notification to the Administrator of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)] Federally Enforceable Through Title V Permit
84. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
85. The permit shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60.7(f) recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports and records. [40 CFR 60.7(f)] Federally Enforceable Through Title V Permit
86. Permittee shall keep a monthly record of the type and quantity of each fuel used and the higher heating value of each fuel, as determined by Section 6.3 of Rule 4352, or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
87. Beginning January 31, 2016, HCL emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
88. Beginning January 31, 2016, mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit

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89. Beginning January 31, 2016, CO emissions shall not exceed 1500 ppmvd @ 3% O₂ on a 3-run source test average (1-hr minimum sampling time) except during periods of startup and shutdown, or shall not exceed 720 ppmvd @ 3% O₂ on a 30-day rolling CEMS average except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
90. Beginning January 31, 2016, Filterable PM shall not exceed 0.037lb/MMBtu except during periods of startup and shutdown, or TSM (Total Selected Metals as Defined in 40 CFR 63 Subpart DDDDD) shall not exceed 0.00024 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
91. By January 31, 2016, permittee shall perform an initial tune-up of the boiler as specified in 40 CFR 63.7540. If this unit is equipped with a continuous oxygen trim system, permittee shall perform a tune-up of the boiler every five years, as specified in 40 CFR 63.7540. If this unit is not equipped with a continuous oxygen trim system, permittee shall perform a tune-up of the boiler every year, as specified in 40 CFR 63.7540. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
92. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
93. Beginning January 31, 2016, permittee shall operate all continuous monitoring systems during startup of the boiler. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
94. Beginning January 31, 2016, permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, dry scrubber, fabric filter, selective non-catalytic reduction, and selective catalytic reduction. Those systems shall be started as expeditiously as possible. Startup ends when steam or heat is supplied for any purpose. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
95. Beginning January 31, 2016, permittee shall vent emissions to the main stack(s) when firing biomass during shutdown and shall continue to operate all applicable control devices except limestone injection in fluidized bed combustion boilers, dry scrubber, fabric filter, selective non-catalytic reduction, and selective catalytic reduction. Permittee shall collect monitoring data during periods of shutdown as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of shutdown. Permittee shall provide reports concerning activities and periods of shutdown, as specified in 40 CFR 63.7555. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
96. Permittee shall comply with the applicable testing, monitoring, recordkeeping, reporting, and notification requirements of 40 CFR 63 Subpart DDDDD. Permittee shall submit a testing and monitoring plan to the District by January 1, 2016, detailing the method the permittee has chosen to comply with the testing and monitoring requirements of 40 CFR 63 Subpart DDDDD. [40 CFR 63 Subpart DDDDD] 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.

97. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
98. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [District Rule 4001] Federally Enforceable Through Title V Permit
99. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1080, Sections 4, 6.5, 6.6, 6.7, 7.2, 8.0, 9.0, and 10. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
100. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4201. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
101. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4301, Sections 5.1, 5.2.2, and 5.2.3. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
102. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-2-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

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PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 407 (San Joaquin)] Federally Enforceable Through Title V Permit
3. This engine shall be used exclusively for fire fighting purposes. [District Rule 4702, 4.3.1] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. The permittee may operate the emergency engine up to 50 hours per year in non-emergency situations for required regulatory purposes, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. The engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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11. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. All records shall be maintained and retained on-site for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-4-6

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
ASH AND FUEL STORAGE AREA

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PERMIT UNIT REQUIREMENTS

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-5-5

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-6-6

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-7-6

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. Visible emissions from the dust collector serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Limestone/Lime shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The pneumatic transfer components and connections shall be totally dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The storage silo shall be totally dust tight and vented only through the dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of lime/limestone received shall not exceed 25 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration shall not exceed 0.0049 pounds per ton of lime/limestone received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of lime/limestone received shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Visible emissions from the dust collector serving the storage silo shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-8-6

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS

PERMIT UNIT REQUIREMENTS

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-9-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The engine shall be equipped with a turbocharger. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, 40 CFR Part 60, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. The engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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22. All records shall be maintained and retained on-site for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-12-6

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. This silo shall be used to store an absorbent material such as sodium carbonate, sodium bicarbonate, or other similar (non-HAP) material for use as a flue gas conditioner prior to the electrostatic precipitator. The material shall not contain any hazardous air pollutant (HAP). The most recent product data sheets or MSDSs shall be kept on-site and shall be presented to the District upon request. [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.0] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of material received shall not exceed 48 tons in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0049 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the amount of material received into the storage silo shall be maintained and updated daily. [District NSR and 1070 Rules] Federally Enforceable Through Title V Permit
11. Visible emissions shall be inspected annual during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

13. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-13-2

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

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

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-1026-0-3

EXPIRATION DATE: 07/31/2016

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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [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, 9.9.1 and 9.13.1] 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: THERMAL ENERGY DEV PARTNERSHIP LP

Location: 14800 W SCHULTE RD, TRACY, CA 95377

N-1026-0-3: Feb 21 2017 4:48PM - KAHLOW

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 (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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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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 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. 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. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8061 and 8011] Federally Enforceable Through Title V Permit
34. 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 Rules 8071 and 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

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36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (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. The reporting period of the Report of Required Monitoring and the Compliance Certification Report begin every January 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of reporting period. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-1-16

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR AND EQUIPPED WITH A MULTICLONE AND ELECTROSTATIC PRECIPITATOR, LIME/LIMESTONE INJECTION, AND SELECTIVE NON-CATALYTIC REDUCTION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Except during periods of startup, shutdown, or malfunction, the permittee shall not discharge 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. Owners and operators of an affected facility that install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to Subpart Db and are subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less are exempt from the opacity standard specified in this paragraph. [40 CFR 60, Subpart Db] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301] Federally Enforceable Through Title V Permit
3. At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any effected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [District Rule 4352 and 40 CFR 60.11(d)] Federally Enforceable Through Title V Permit
4. The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The boiler shall utilize limestone/lime injection for SOx control and a thermal DeNOx system (selective non-catalytic reduction system) utilizing ammonia injection for NOx control. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The boiler shall be equipped with an automatic air/fuel ratio control system. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Natural gas fired burners shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. The natural gas burners shall be of staged combustion, low-NOx design. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Natural gas fuel usage shall be limited to an annual capacity factor of 10% or less based on the ratio of actual natural gas heat input and maximum potential heat input had the boiler unit been operating at maximum steady-state capacity for 8,760 hours per year. [District Rule 2201 and 40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Except during startup and shutdown, NO_x emissions shall not exceed 90 ppmv corrected to 3% O₂ and CO emissions shall not exceed 400 ppmv corrected to 3% O₂. Except during source tests, compliance with these emission limits shall be determined from CEMS data based on a block 24-hour average. During source tests, compliance with these emission limits shall be determined using the test methods and procedures specified elsewhere in this permit. [District Rule 4352] Federally Enforceable Through Title V Permit
11. The NO_x emissions shall not exceed 27.2 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The SO_x emissions shall not exceed 6.25 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The PM₁₀ emissions shall not exceed 8.75 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The particulate matter emissions shall not exceed 8.75 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The CO emissions shall not exceed 74.4 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The CO emissions shall not exceed 1545.6 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The CO emissions shall not exceed 537,280 pounds per year. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The VOC emissions shall not exceed 12.8 pounds during any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The ammonia emissions shall not exceed 100 ppm, by volume, at 3% O₂. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
20. A block 24-hour average is the arithmetic average of the hourly emission rates of a unit as measured over 24 one-hour periods, daily, from 12:00 AM to 11:59 PM, excluding periods of system calibration. [District Rule 4352] Federally Enforceable Through Title V Permit
21. The duration of each shutdown shall not exceed 12 hours per event. [District Rule 4352] Federally Enforceable Through Title V Permit
22. The duration of each startup shall not exceed 96 hours per event. 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. [District Rule 4352] Federally Enforceable Through Title V Permit
23. Startup is the period of time during which a unit is heated to the operating temperature and pressure from a shutdown or hot standby condition. Shutdown is the period of time during which a unit is taken from operational to non-operational status by allowing it to cool down from its operating temperature to an ambient temperature or to a hot standby condition. A hot standby condition is 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] Federally Enforceable Through Title V Permit
24. Source testing shall be conducted to demonstrate compliance with the VOC (lb/hr), NO_x (lb/hr and ppmv), CO (lb/hr and ppmv), PM₁₀ (lb/hr), SO_x (lb/hr), particulate matter (lb/hr), and ammonia (ppmv) emission limits at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Compliance with the hourly emission rates for NO_x, CO, VOC, SO_x, PM₁₀, and particulate matter and the ammonia concentration while source testing shall be determined using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0. [District Rules 1081, 2201, and 4352] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The pre-test plan shall outline the test methods, procedures, and operating parameters for each source test required. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
29. The permittee shall comply with the requirements for sampling facilities listed in District Rule 1081 Section 3.0 (amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
30. Source testing to measure concentrations of oxides of nitrogen (as NO₂) shall be conducted using EPA method 7E or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10, or CARB methods 10 or 100. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA methods 18 or 25, or CARB method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Source testing to measure concentrations of oxides of sulfur (SO_x) as SO₂ shall be conducted using EPA methods 6 or 8, or CARB method 100. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not include ammonia sulfate compounds. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Source testing to measure concentrations of PM₁₀ shall be conducted using EPA method 201 and 202, or EPA method 201a and 202, or CARB method 501 and 5. [District Rule 2201] Federally Enforceable Through Title V Permit
37. In lieu of performing a source test for PM₁₀, the results of the total particulate test may be used for compliance with the PM₁₀ emissions limit. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Source testing to measure stack gas velocity shall be conducted using EPA method 2 or CARB method 2. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Source testing to measure concentrations of NH₃ shall be conducted using Bay Area Air Quality Management District (BAAQMD) method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Solid fuel higher heating value (hhv) shall be determined by ASTM Method D 5865, or ASTM Method E 711. [District Rule 4352] Federally Enforceable Through Title V Permit
42. All emission measurements shall be made with the unit operating at condition representative of normal operations. No compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
43. The facility shall install, calibrate, maintain, and operate an oxygen or carbon dioxide continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [District Rules 1080, 2201, and 4352, 40 CFR 60, and 40 CFR 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.

44. When using measurements taken by the CO₂ analyzer for emission compliance determinations, the following formula shall be used to convert the emission concentration referenced at 12 percent CO₂ to an emission concentration referenced at 3 percent O₂: $E \text{ at } 3\%O_2 = E \text{ at } 12\%CO_2 \times (CO_2 \text{ F-Factor} \div O_2 \text{ F-Factor}) \times (100 \div 12) \times (20.9 - 3) \div 20.9$. Where, the CO₂ F-Factor is in terms of scf CO₂/MMBtu and the O₂ F-Factor is in terms of dscf/MMBtu at 0% O₂. Permittee may choose to use the default CO₂ and O₂ F-Factors for wood listed in 40 CFR Method 19, or may choose to use site-specific F-Factors. If using site specific F-Factors, permittee shall re-determine the site-specific F-Factors annually using at least 9 fuel samples. The site-specific F-Factors shall be determined in accordance with EPA Method 19. [District Rules 1080 and 2080, and 40 CFR 60]
45. Permittee shall keep records of site-specific F-Factor determinations, including the date of each determination, the corresponding CO₂ F-Factor, and the corresponding O₂ F-Factor. [District Rules 1080 and 2080, and 40 CFR 60] Federally Enforceable Through Title V Permit
46. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.48b, 40 CFR 60.13, and 40 CFR 60 Appendix B. The span value for the COMS shall be between 60% and 80%. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. [40 CFR 60.48b(a), 40 CFR 60.48b(e)(1), 40 CFR 64 and District Rule 1080] Federally Enforceable Through Title V Permit
47. The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 1080 and 2201, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
48. The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.13 and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 2201, 1080, and 4352, 40 CFR 60, and 40 CFR 64] Federally Enforceable Through Title V Permit
49. The facility shall install, calibrate, maintain, and operate a carbon monoxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District Rules 1080 and 2201, and 40 CFR 60] Federally Enforceable Through Title V Permit
50. Except during the annual source test, compliance with the hourly emission limits of NO_x, CO, and SO_x shall be determined by the continuous monitoring and recording equipment and shall be based on a 24 hour rolling average. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
51. Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 64] Federally Enforceable Through Title V Permit
52. Within 96 hours, the operator shall report to the District any violation of the NO_x, CO, or SO_x emission standards indicated by the CEMS. [District Rule 1080] Federally Enforceable Through Title V Permit
53. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
54. The permittee shall submit an excess emissions and monitoring systems performance report and-or summary report form to the EPA semiannually. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess opacity emissions and COMS downtime shall include the information listed in 40 CFR 60.7(c)(1) through (4). The summary report form shall contain the information listed in 40 CFR 60.7(d). [40 CFR 60.49b(h)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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55. Excess opacity emissions are defined as all 6-minute periods during which the average opacity exceeds 20 percent, except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.49(h)(3) and 60.43b(f)] Federally Enforceable Through Title V Permit
56. Operator shall notify the District no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
57. The permittee, shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard. [40 CFR 60.7(f)(1)] Federally Enforceable Through Title V Permit
58. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of CEMS shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit Reports, pursuant to 40 CFR 60 Appendix F, shall be submitted, to the District, along with the Quarterly CEMS Report. [District Rule 1080 and 40 CFR Appendix F] Federally Enforceable Through Title V Permit
59. The owner/operator shall perform a CEMS relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the CEMS equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. The permittee shall submit the RATA Report to the APCO; two copies of the RATA Report shall be submitted to USEPA Region IX. [District Rule 1080, 40 CFR 60.4(a), and 40 CFR 60, Appendix F] Federally Enforceable Through Title V Permit
60. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted during the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [District Rule 2201 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
61. Adequate amounts of agricultural waste which otherwise would be disposed of by open burning shall be used as boiler fuel to provide offsets at adequate ratios (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). [District Rule 2201] Federally Enforceable Through Title V Permit
62. The above ratios shall be used to mitigate the following daily emissions limits: PM - 263.7 lbs; NO_x - 726.3 lbs; CO - 1,472 lbs; VOC - 314.8 lbs. [District Rule 2201] Federally Enforceable Through Title V Permit
63. No later than December 1st of each calendar year, the permittee shall submit an Emission Offset Report to the District for the following calendar year. The Report shall include copies of creditable agricultural waste fuel purchase contracts for the following calendar year, including the quantity of offset credits they could generate, and the quantity of offset credits available from the Accrued Unused Offset Balance as determined by the Credit Accounting Report, as of October 1st of the current calendar year. The Report shall demonstrate that the quantity of all available and projected offsets to be generated for the following calendar year is equal or greater than the full amount of offsets required by this permit for the following calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The amount of offsets required by this permit for the following calendar year is equal to the highest hourly, daily, monthly or annual emission rate limit contained in this permit for NO_x, SO_x, CO, VOC, PM and PM₁₀, calculated on an annualized basis. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

65. The permittee shall maintain a monthly Credit Accounting Report available for review by the District upon request. The Report shall demonstrate that sufficient credits were provided to fully offset the actual emissions emitted for each pollutant. The Report shall calculate each of the following monthly: Offset Credits Generated, Monthly Emission Rate, Offset Credit Surplus, Accrued Unused Offset Balance, and Expired Credits. The monthly calculations shall be completed by the 15th day of the following calendar month. The Offset Credits Generated shall be determined by multiplying the weight of each creditable fuel received with its respective open-burn emission factor and divide the resultant by the appropriate distance offset ratio (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). The Monthly Emission Rate shall be determined by multiplying the daily emission limit for each pollutant by the number of operating days in a month. The Offset Credit Surplus (or deficit) shall be determined by subtracting the Monthly Emission Rate from the Offset Credits Generated. The Accrued Unused Offset Balance shall be determined by summing the Offset Credit Surplus (or deficit) for each month, beginning in January 2001, and subtracting any Expired Credits. Expired Credits shall be determined by summing the Offset Credit Surplus (or deficit) for the previous 11 months and subtracting this value from the current Accrued Unused Offset Balance. Any positive value resulting from this calculation will determine the quantity of Expired Credits. [District Rule 2201] Federally Enforceable Through Title V Permit
66. The permittee shall maintain copies of each executed creditable agricultural waste fuel purchase contract. [District Rule 2201] Federally Enforceable Through Title V Permit
67. All such offset contracts shall become part of this Permit to Operate and shall be enforceable pursuant to the applicable rules and regulations. [District Rule 2201] Federally Enforceable Through Title V Permit
68. This unit shall only be fired on biomass, except that the unit may also be fired on natural gas during startup, shutdown, and flame stabilization periods. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
69. Biomass is defined as any organic material originating from plants, not treated with preservatives and not derived from fossil fuels, including but not limited to products, by-products, and residues from agriculture, forestry, aquatic and related industries, such as agricultural, energy or feed crops and residues, orchard and vineyard prunings and removal, stone fruit pits, nut shells, cotton gin trash, corn stalks and stover, straw, seedhulls, sugarcane leavings and bagasse, aquatic plants and algae, cull logs, eucalyptus logs, poplars, willows, switchgrass, alfalfa, bark, lawn, yard and garden clippings, paper (unprinted), leaves, silvicultural residue, tree and brush pruning, sawdust, timber slash, mill scrap, wood and wood chips, and wood waste. Biomass does not include tires, material containing sewage sludge, or industrial, hazardous, radioactive, or municipal solid waste. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
70. Wood waste consists of wood pieces or particles which are generated from the manufacturing or production of wood products, harvesting, processing or storage of raw wood materials, or construction and demolition activities. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
71. Urban wood waste (derived from construction and demolition or diverted from landfills) is approved as fuel provided the mixed urban wood waste fuel contains less than 1% by weight, of plastic, rubber, metals, roofing felt paper, and other non-wood contaminants (other than dirt or ash). No asbestos-containing materials are approved as fuel. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
72. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year, as follows: equivalent of one truckload of mixed urban wood waste fuel prepared for combustion in the boiler (subject to District approval) shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified (plastic, rubber, metals, roofing felt paper, or other non-wood contaminants) and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
73. No putrescible material shall be received at this facility and/or combusted in the boiler. [District Rule 2201] Federally Enforceable Through Title V Permit
74. Prior notification and District approval shall be required upon any new fuel usage. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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75. Permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b) every two years. 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
76. All electrostatic precipitator fields shall be in operation whenever the boiler is operated. The electrostatic precipitator secondary voltage and secondary current settings shall be maintained at levels sufficient to demonstrate a corona power (estimated as secondary voltage, in KiloVolts, multiplied by secondary current, in Amperes) of at least 3.0 KilovoltAmperes in field #1, 5.0 KilovoltAmperes in field #2, 5.0 KilovoltAmperes in field #3 and 12.0 KilovoltAmperes in field #4. Transient corona power disruptions due to arcs and sparks, or similar automatic functions of the electrostatic precipitator, shall not constitute deviations. The electrostatic precipitator shall be maintained in accordance with the manufacturer's recommendations, a copy of which shall be maintained on site. [40 CFR 64] Federally Enforceable Through Title V Permit
77. The applicant shall record the secondary voltage and the secondary current for each electrostatic precipitator field at least four times daily. [40 CFR 64] Federally Enforceable Through Title V Permit
78. The permittee shall submit a notification to the Administrator of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)] Federally Enforceable Through Title V Permit
79. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
80. The permit shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60.7(f) recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports and records. [40 CFR 60.7(f)] Federally Enforceable Through Title V Permit
81. Permittee shall keep a monthly record of the type and quantity of each fuel used and the higher heating value of each fuel, as determined by Section 6.3 of Rule 4352, or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
82. Beginning January 31, 2016, HCL emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
83. Beginning January 31, 2016, mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
84. Beginning January 31, 2016, CO emissions shall not exceed 1500 ppmvd @ 3% O₂ on a 3-run source test average (1-hr minimum sampling time) except during periods of startup and shutdown, or shall not exceed 720 ppmvd @ 3% O₂ on a 30-day rolling CEMS average except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
85. Beginning January 31, 2016, Filterable PM shall not exceed 0.037lb/MMBtu except during periods of startup and shutdown, or TSM (Total Selected Metals as Defined in 40 CFR 63 Subpart DDDDD) shall not exceed 0.00024 lb/MMBtu except during periods of startup and shutdown. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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86. By January 31, 2016, permittee shall perform an initial tune-up of the boiler as specified in 40 CFR 63.7540. If this unit is equipped with a continuous oxygen trim system, permittee shall perform a tune-up of the boiler every five years, as specified in 40 CFR 63.7540. If this unit is not equipped with a continuous oxygen trim system, permittee shall perform a tune-up of the boiler every year, as specified in 40 CFR 63.7540. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
87. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
88. Beginning January 31, 2016, permittee shall operate all continuous monitoring systems during startup of the boiler. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
89. Beginning January 31, 2016, permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, dry scrubber, fabric filter, selective non-catalytic reduction, and selective catalytic reduction. Those systems shall be started as expeditiously as possible. Startup ends when steam or heat is supplied for any purpose. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
90. Beginning January 31, 2016, permittee shall vent emissions to the main stack(s) when firing biomass during shutdown and shall continue to operate all applicable control devices except limestone injection in fluidized bed combustion boilers, dry scrubber, fabric filter, selective non-catalytic reduction, and selective catalytic reduction. Permittee shall collect monitoring data during periods of shutdown as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of shutdown. Permittee shall provide reports concerning activities and periods of shutdown, as specified in 40 CFR 63.7555. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
91. Permittee shall comply with the applicable testing, monitoring, recordkeeping, reporting, and notification requirements of 40 CFR 63 Subpart DDDDD. Permittee shall submit a testing and monitoring plan to the District by January 1, 2016, detailing the method the permittee has chosen to comply with the testing and monitoring requirements of 40 CFR 63 Subpart DDDDD. [40 CFR 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
92. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
93. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [District Rule 4001] Federally Enforceable Through Title V Permit
94. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1080, Sections 4, 6.5, 6.6, 6.7, 7.2, 8.0, 9.0, and 10. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

95. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4201. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
96. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4301, Sections 5.1, 5.2.2, and 5.2.3. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
97. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-2-3

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

PERMIT UNIT REQUIREMENTS

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

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

12. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. The permittee may operate the emergency engine up to 50 hours per year in non-emergency situations for required regulatory purposes, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for nonemergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. On and after May 3, 2013, this stationary RICE and after control device (if any) shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier or the permittee's own maintenance plan. The permittee's maintenance plan must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

21. On and after May 3, 2013, the permittee shall keep a copy of each notification and report that was submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in Section 63.10(b)(2)(xiv). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4702, 2520, 9.4, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-4-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
ASH AND FUEL STORAGE AREA

PERMIT UNIT REQUIREMENTS

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-5-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-6-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-7-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. Visible emissions from the dust collector serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Limestone/Lime shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The pneumatic transfer components and connections shall be totally dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The storage silo shall be totally dust tight and vented only through the dust collector. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The amount of lime/limestone received shall not exceed 25 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emission concentration shall not exceed 0.0049 pounds per ton of lime/limestone received. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Daily records indicating the amount of lime/limestone received shall be maintained on site. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Visible emissions from the dust collector serving the storage silo shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: THERMAL ENERGY DEV PARTNERSHIP LP

Location: 14800 W SCHULTE RD, TRACY, CA 95377

N-1026-7-4 : Feb 21 2017 4:48PM - KAHLOJ

15. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-8-4

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS

PERMIT UNIT REQUIREMENTS

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-9-3

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
7. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and 17 CCR 93115]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404, Rule 406, and Rule 407 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
16. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, 40 CFR Part 60, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, this stationary RICE and after control device (if any) shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier or the permittee's own maintenance plan. The permittee's maintenance plan must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the District which 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. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours or every 12 months, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
24. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
25. On and after May 3, 2013, the permittee shall keep a copy of each notification and report that was submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in Section 63.10(b)(2)(xiv). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
26. On and after May 3, 2013, the permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-12-3

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. This silo shall be used to store an absorbent material such as sodium carbonate, sodium bicarbonate, or other similar (non-HAP) material for use as a flue gas conditioner prior to the electrostatic precipitator. The material shall not contain any hazardous air pollutant (HAP). The most recent product data sheets or MSDSs shall be kept on-site and shall be presented to the District upon request. [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.0] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.0] Federally Enforceable Through Title V Permit
4. Visible emissions from the dust collector serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of material received shall not exceed 48 tons in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0049 pounds per ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Records of the amount of material received into the storage silo shall be maintained and updated daily. [District NSR and 1070 Rules] Federally Enforceable Through Title V Permit
11. Visible emissions shall be inspected annual during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1026-13-1

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit

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

Facility Name: THERMAL ENERGY DEV PARTNERSHIP LP

Location: 14800 W SCHULTE RD, TRACY, CA 95377

N-1026-13-1 : Feb 21 2017 4:48PM -- KAHLOJ

ATTACHMENT C

Detailed Facility List

Detailed Facility Report

For Facility=1026 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

THERMAL ENERGY DEV PARTNERSHIP LP		FAC #	N 1026	TYPE:	Ther	EXPIRE ON:	07/31/2016
14800 W SCHULTE RD		STATUS:	A	TOXIC ID:	21283	AREA:	4 /
TRACY, CA 95377		TELEPHONE:				INSP. DATE:	05/17

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1026-1-16	20,500 kW	3020-08A F	1	8,941.00	8,941.00	A	BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR AND EQUIPPED WITH A MULTICLONE AND ELECTROSTATIC PRECIPITATOR, LIME/LIMESTONE INJECTION, AND SELECTIVE NON-CATALYTIC REDUCTION SYSTEM
N-1026-2-3	196 bhp ICE	3020-10 B	1	129.00	129.00	A	EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP
N-1026-4-4	Component: Power Generation	999-99	1	0.00	0.00	A	ASH AND FUEL STORAGE AREA
N-1026-5-4	Component: Power Generation	999-99	1	0.00	0.00	A	PRIMARY FUEL HANDLING SYSTEM CONSISTING OF TWO RECLAIM AND BLENDING AREAS, CONVEYING TO A DISK SCREEN OR DIVERTED TO A HOG FOR CHIP SIZING, BULK CONVEYOR, FUEL INFEEED CONVEYOR, DISTRIBUTION CONVEYOR, THREE METERING BINS, OVERFEED CONVEYOR. SECONDARY FUEL HANDLING SYSTEM CONSISTS OF A RECLAIM AND MIXING AREA, AND A SECONDARY INFEEED CONVEYOR SERVING THE DISTRIBUTION CONVEYOR. ALTERNATE BIOMASS FUEL HANDLING SYSTEM CONSISTING OF A 10 CUBIC YARD FEED HOPPER AND AN ENCLOSED FEED CONVEYOR WITH AN ENCLOSED TRANSFER POINT SERVING THE PRIMARY FUEL HANDLING SYSTEM.
N-1026-6-4	Component: Power Generation	999-99	1	0.00	0.00	A	FLYASH HANDLING SYSTEM FROM THE BOILER, THE MULTI-CLONES, AND THE ELECTROSTATIC PRECIPITATOR VIA ENCLOSED CONVEYORS TO A 550 CF ASH HOPPER. ASH CONDITIONER ADDITIVE RECEIVING AND STORAGE SYSTEM. THE ASH HOPPER SERVES AN ASH MIXER AND A TRUCK LOADOUT SPOUT
N-1026-7-4	Component: Power Generation	999-99	1	0.00	0.00	A	LIMESTONE/LIME RECEIVING AND STORAGE TO A 25 TON STORAGE SILO VENTED TO A DUST COLLECTOR
N-1026-8-4	Component: Power Generation	999-99	1	0.00	0.00	A	BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS
N-1026-9-3	89.2 bhp ICE	3020-10 A	1	88.00	88.00	A	MAGNETEK (MODEL RD 630) 50 KW EMERGENCY GENERATOR SERVED BY A PERKINS 89.2 HP DIESEL FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH AN ENGELHARD 5DVC CATALYTIC CONVERTER
N-1026-12-3	Component: Power Generation	999-99	1	0.00	0.00	A	RECEIVING AND STORAGE OPERATION USING 2020 CUBIC FOOT SILO SERVED BY AN ALANCO ENVIRONMENTAL MODEL 16AVS6 BIN VENT FILTER
N-1026-13-1	Component: Power Generation	999-99	1	0.00	0.00	A	15,000 GALLONS PER MINUTE ECODYNE COOLING MODEL 02CFF-0707, 2 CELL (EACH 42 FT X 42 FT), COOLING TOWER EQUIPPED WITH BRENTWOOD INDUSTRIES MODEL CDX-150 "ISOMETRIC" DRIFT ELIMINATOR

ATTACHMENT D

Response to Applicant's Comment

Response to Applicant's Comment

On March 20, 2017, the District received the following comments from Thermal Energy Development Partnership, LP (TEDP).

Comment 1:

TEDP states that the dormant status of the facility prohibits emissions testing and tuning of the boiler under permit N-1026-1. Therefore, condition 91, 92, and 93 in the proposed Title V renewal permit N-1026-1-18 should be revised to reflect that these activities are to be completed within 180 days of restart of the boiler.

Response:

TEDP was issued Authority to Construct permit N-1026-1-17 for designating the boiler as dormant emission unit. The permit requires that any source testing shall be performed within 60 days of recommencing operation regardless of the unit remains active or is again designated as dormant. This requirement (along with any other changes made during this Title V renewal) will end up in the final Title V permit once N-1026-1-17 is implemented into Permit to Operate. Therefore, the proposed changes to conditions 91, 92 and 93 are not necessary.
