

September 8, 2021

Mr. Justin Crook
DTE Stockton, LLC
2526 W Washington St
Stockton, CA 95203

Re: Notice of Final Action - Title V Permit Renewal
Facility Number: N-645
Project Number: N-1202108

Dear Mr. Crook:

The District has issued the Final Renewed Title V Permit for DTE Stockton, LLC (see enclosure). The preliminary decision for this project was made on July 26, 2021.

The public notice for issuance of the Final Title V Permit will be posted on the District's website (www.valleyair.org).

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,



Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Laura Yannayon, EPA (w/enclosure) via EPS

Samir Sheikh
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

Permit to Operate

FACILITY: N-645

EXPIRATION DATE: 11/30/2025

LEGAL OWNER OR OPERATOR:

DTE STOCKTON, LLC

MAILING ADDRESS:

ATTN: PAYABLE DEPARTMENT

2526 W WASHINGTON ST

STOCKTON, CA 95203

FACILITY LOCATION:

2526 W WASHINGTON ST

STOCKTON, CA 95203

FACILITY DESCRIPTION:

POWER 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.

Samir Sheikh
Executive Director / APCO

Brian Clements
Director of Permit Services

San Joaquin Valley

Air Pollution Control District

FACILITY: N-645-0-5

EXPIRATION DATE: 11/30/2025

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 (San Joaquin)] 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 (San Joaquin)] 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 (12/18/14). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] 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: DTE STOCKTON, LLC
Location: 2526 W WASHINGTON ST, STOCKTON, CA 95203
N-645-0-5 : Sep 8 2021 8:36AM - KAHLOJ

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 San Joaquin County Rule 401] Federally Enforceable Through Title V Permit

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in 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 8011 and 8021] 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 8011 and 8031] 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 8011 and 8041] 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 8011 and 8051] 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 8011 and 8061] 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 8011 and 8071] 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 (San Joaquin), Rule 110 (San Joaquin), and Rule 202 (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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On April 13, 2001, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin April 13 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-645-8-9

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

DRY SORBENT RECEIVING SILO #1 CONTROLLED WITH A FABRIC FILTER BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. Dry sorbent shall be received through direct coupled pneumatic unloading truck. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The pneumatic transfer components and connections shall be totally air tight. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The storage silos shall be totally air tight and vented only through a fabric filter. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The fabric filters shall have a maximum effective air to cloth ratio of 4.5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the fabric filter. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The fabric filter baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. The differential pressure across each compartment shall be maintained between 1" and 8" water column. [District Rules 2201 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. A spare set of each type of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Records of fabric collector system maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual Performing inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. Visible emissions from the the dry sorbent receiving silo shall be checked and the results recorded annually. If visible emissions are observed, corrective action shall be taken prior to further operation of the equipment. Corrective action means that visible emissions are eliminated before operation of the equipment is resumed. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the fabric filter baghouse shall be checked and the results recorded annually. If the differential pressure across each compartment of the fabric filters is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
14. 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
15. PM10 emissions from the dry sorbent receiving and storage operation shall not exceed 0.00039 pounds per ton of dry sorbent received. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The quantity of dry sorbent received shall not exceed 365 tons in any one day and 27,375 tons in any rolling 12-consecutive-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Permittee shall maintain daily records of the quantity of dry sorbent received, in tons, and shall update the rolling 12-consecutive-month total of dry sorbent received at least once each calendar month. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-645-9-9

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

DRY SORBENT RECEIVING SILO #2 CONTROLLED WITH A FABRIC FILTER BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. Dry sorbent shall be received through direct coupled pneumatic unloading truck. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The pneumatic transfer components and connections shall be totally air tight. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The storage silos shall be totally air tight and vented only through a fabric filter. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The fabric filters shall have a maximum effective air to cloth ratio of 4.5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the fabric filter. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The fabric filter baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. The differential pressure across each compartment shall be maintained between 1" and 8" water column. [District Rules 2201 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. A spare set of each type of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fabric collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Fabric collector filters shall be completely inspected annually while not in operation for tears, scuffs, abrasives or holes which might interfere with PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Records of fabric collector system maintenance, inspection, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual Performing inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. Visible emissions from the the dry sorbent receiving silo shall be checked and the results recorded annually. If visible emissions are observed, corrective action shall be taken prior to further operation of the equipment. Corrective action means that visible emissions are eliminated before operation of the equipment is resumed. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the fabric filter baghouse shall be checked and the results recorded annually. If the differential pressure across each compartment of the fabric filters is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
14. 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
15. PM10 emissions from the dry sorbent receiving and storage operation shall not exceed 0.00039 pounds per ton of dry sorbent received. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The quantity of dry sorbent received shall not exceed 365 tons in any one day and 27,375 tons in any rolling 12-consecutive-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Permittee shall maintain daily records of the quantity of dry sorbent received, in tons, and shall update the rolling 12-consecutive-month total of dry sorbent received at least once each calendar month. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-645-12-8

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

FLY-ASH AND BOTTOM-ASH HANDLING, STORAGE, AND TRUCK LOADOUT OPERATIONS INCLUDING TWO FLY-ASH STORAGE SILOS (900-TON CAPACITY, 500-TON CAPACITY) EACH VENTED TO A CLOSED-LOOP AIR TIGHT SYSTEM, AN ENCLOSED PUGMILL EQUIPPED WITH WATER SPRAYS TO MAKE WET FLY-ASH FOR LOADING INTO OPEN-TOP TRUCK TRAILERS, A TELESCOPIC SPOUT SEALING TO THE TRUCK TRAILER HATCH FOR DRY FLY-ASH DISPENSING INTO FULLY-SEALED TRUCK TRAILER AND RECOVERING ANY FUGITIVE FLY-ASH FROM THE TRAILER AND ROUTING IT THROUGH A CLOSED-LOOP AIR TIGHT SYSTEM, AND ENCLOSED FLY-ASH CONVEYING EQUIPMENT (FLY-ASH CONVEYORS AND FLY-ASH BUCKET ELEVATOR); WET BOTTOM-ASH TRANSFER WITH A CHAIN-CONVEYOR DELIVERING WET BOTTOM-ASH TO A BUNKER, AND LOADING OF WET BOTTOM-ASH INTO OPEN TOP TRUCK TRAILERS

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 from dry fly-ash silo loading and dry fly-ash truck loading shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Fly-ash from mechanical collectors, electrostatic precipitator (ESP) and selective catalytic reduction (SCR) systems shall be transferred to the storage silos using enclosed conveying equipment (e.g., enclosed screw conveyors, enclosed bucket elevators, etc.). These silos shall be discharged to a closed-loop air tight system operating under slight negative pressure induced by the fan upstream of the scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Water sprays connected to the pug mill shall be maintained in good working condition. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions from loading fly-ash into pug-mill shall not exceed 0.0028 pounds per ton of dry fly-ash loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
6. No more than 120 tons of dry fly-ash shall be loaded in the pug-mill during any one day. The owner or operator may use the amount of wet fly-ash loaded into trucks and the amount of moisture in the wet fly-ash to calculate the amount of dry fly-ash to demonstrate compliance with this requirement. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Wet fly-ash loaded into truck trailers shall have at least 15% moisture by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Wet fly-ash loading into truck trailer shall not have any visible emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Telescopic spout shall be operated in a manner to cause minimal fly-ash dust inside the trailer during the fly-ash loading process. Any dust generated inside the trailer shall be discharged into a closed-loop air tight system operating under slight negative pressure induced by the fan upstream of the scrubber. [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.

10. Dry fly-ash shall be loaded into an enclosed truck trailer, except for any opening(s), needed for the makeup air to maintain the structural integrity of the truck trailer. The direction of air flow through each opening shall occur into the trailer compartment. Under no circumstances, there shall be any visible emissions from the openings during the loading process. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM10 emissions from loading dry fly-ash into enclosed truck trailers shall not exceed 0.000028 pounds per ton of dry fly-ash loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
12. No more than 120 tons of dry fly-ash shall be loaded in the truck trailers during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Wet bottom-ash loaded into truck trailers shall have at least 6% moisture by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Wet bottom-ash loading into truck trailer shall not have any visible emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM10 emissions from loading wet bottom-ash into truck trailers shall not exceed 0.000046 pounds per ton of wet bottom-ash loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
16. No more than 100 tons of wet bottom-ash shall be loaded in the truck trailers during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Visible emissions from the wet fly-ash loading into truck trailers, dry fly-ash into truck trailers, and bottom-ash loading into truck trailers shall be checked and recorded at least once a day during truck loading process for each material. If visible emissions are observed, corrective action shall be taken prior to further operation of the equipment. Corrective action means that visible emissions are eliminated before operation of the equipment is resumed. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The owner or operator shall inspect spray nozzles connected to the pug-mill at least weekly and conduct necessary repairs shall be repaired as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. The owner or operator shall monitor and record the water spray rate to the pug-mill during truck loading at least on a quarterly basis. [District Rules 2201 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
20. Fly-ash conveying system, dry fly-ash telescopic system, closed-loop air tight system and associated duct work shall be completely inspected annually while in operation for evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Records of equipment inspection, maintenance, and repairs shall be maintained. The records shall include identification of equipment, date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. Moisture content of wet fly-ash and wet bottom-ash loaded into the truck trailers shall be measured and recorded at least once a month and whenever requested by the District. The sample for the moisture testing purposes shall weigh at least 2.0 pounds. The percent moisture content shall be determined using the following equation: $[(\text{weight of wet sample} - \text{weight of dry sample}) / \text{weight of wet sample}] \times 100$. [District Rule 2201] Federally Enforceable Through Title V Permit
23. The owner or operator shall maintain records of the following items: (1) Date, (2) Amount of dry fly-ash loaded into the pug-mill (tons/day), (3) Amount of dry fly-ash loaded into the trucks (tons/day), and (4) Amount of bottom-ash transferred into the truck trailers (tons/day). [District Rule 2201] Federally Enforceable Through Title V Permit
24. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] 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-645-33-8

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

355 BHP CUMMINS MODEL #NT855-G2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Emissions from this engine shall ne exceed any of the following limits: 262.7 lb-NO_x/day, 17.5 lb-SO_x/day, 18.4 lb-PM₁₀/day, 56.9 lb-CO/day, or 21 lb-VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63.6625(f)] Federally Enforceable Through Title V Permit
4. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a),Table 2d] Federally Enforceable Through Title V Permit
5. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 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 63.6625(i)] Federally Enforceable Through Title V Permit
6. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR 63.6603(a), Table 2d] Federally Enforceable Through Title V Permit
7. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR 63.6603(a),Table 2d] Federally Enforceable Through Title V Permit
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115, and 40 CFR 63.6604(b)] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations or to supply power while maintenance is performed or repairs made to the primary power supply. Operation of the engine for maintenance, testing and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR Part 63 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.

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 Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
13. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
14. The owner or operator shall maintain monthly records of emergency and non-emergency operation and of the type of fuel used. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 2520, 4701 and 4702, 17 CCR 93115 and 40 CFR Part 63.6655(f)] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6605(b) and 63.6625(e)(3) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
17. The owner or operator shall maintain records of all inspections and 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 63.6655(e)(2) or 40 CFR 63.6655(e)(3)] Federally Enforceable Through Title V Permit
18. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 1070, 2520, 4701, 4702, 17 CCR 93115, and 40 CFR Part 63.6660] Federally Enforceable Through Title V Permit
19. The generator shall only be operated when both circulating fluidized bed boilers are shut down except for brief periods for testing and maintenance which shall not exceed more than 100 hours per year. [PSD ATC SJ 85-05] Federally Enforceable Through Title V Permit
20. The operator shall maintain records of hours of engine operation (regular and maintenance hours) and amount & sulfur content (using ASTM Method D-2880) of fuel fired. Such records shall be made available for District inspection upon request. [PSD ATC SJ 85-05] 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-645-34-7

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

43,000 GALLONS PER MINUTE COOLING TOWER WITH A HIGH EFFICIENCY 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. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012]
4. The cooling tower shall be equipped with a drift eliminator that reduces drift to less than or equal to 0.001%. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions from the cooling tower shall not exceed 22.1 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. VOC emissions from the addition of VOC-containing chemicals to the cooling tower water shall not exceed 0.5 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Cooling tower blowdown water shall be tested for total dissolved solids (TDS) content every quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Testing for TDS shall be conducted using EPA Method 160.1 or any equivalent test method approved in writing by the District and EPA. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Compliance with the daily emissions limitation shall be demonstrated on a quarterly basis using the daily PM10 emission rate calculated as follows: (blowdown water TDS content, in mg/L) x (cooling water recirculation rate, in gal/day) x (design drift rate, as %) x (8.34 x 10⁻⁸). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. Permittee shall maintain records of the quarterly test results for TDS content of the cooling tower blowdown water, along with the calculated daily PM10 emission rate. [District Rule 1070] Federally Enforceable Through Title V Permit
11. Permittee shall maintain a log recording the amount of VOC containing material added each day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. A list of materials added to the cooling tower and their VOC content shall be kept and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] 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-645-36-7

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

54 MW (GROSS) ELECTRICAL GENERATING STATION WITH A 780 MMBTU/HR STOKER BOILER EQUIPPED WITH A 100 MMBTU/HR NATURAL GAS-FIRED STARTUP BURNER, MULTICLONE AND ELECTROSTATIC PRECIPITATOR, TRONA INJECTION AND WET SCRUBBER, AND SELECTIVE CATALYTIC REDUCTION

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 and 40 CFR 60.43b(f) and (g)] 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. 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
4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201 and 40 CFR 63.11205] Federally Enforceable Through Title V Permit
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
6. The permittee shall conduct a performance tune-up of the boiler in accordance with the requirements of 40 CFR 63 Subpart JJJJJ at least every 24 months. The permittee shall submit a signed statement in the Notification of Compliance Status indicating that each tune up was conducted. [40 CFR 63.11210] Federally Enforceable Through Title V Permit
7. The permittee shall calibrate and maintain in operation a selective catalytic reduction (SCR) system designed to reduce NOx emissions from the boiler exhaust stack to less than the permitted NOx emission limit. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The electrostatic precipitator shall be provided with continuous monitoring equipment showing the secondary power input, as specified in 40 CFR 63, Subpart JJJJJ. The monitoring equipment shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR 63.11224, 63.11205(b), 63.1121, 63.11222(a), 63.1124(b)] Federally Enforceable Through Title V Permit
9. The electrostatic precipitator shall be in operation whenever the boiler is operated on biomass. The electrostatic precipitator secondary power input, on a 12-hour block average, shall be maintained at or above the lowest 1-hour average secondary power input measured during the most recent performance test demonstrating compliance with the PM emission limitation, in accordance with Table 3 of 40 CFR 63, Subpart JJJJJ. Transient voltage fluctuations 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. [District Rule 2201, 40 CFR 63.11221, 63.11205(b), 63.11222(a), 63.11224(b) 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.

10. The wet scrubber shall be provided with monitoring equipment that continuously monitors and records the effluent pH and flow rate of the scrubber liquid. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The wet scrubber shall be in operation whenever the boiler is operated on biomass. The effluent pH and liquid flow rate, calculated on a rolling 30-day average basis, shall be maintained at or above the average pH and flow rate established during the most recent HCl source test. [District Rules 2201 and 4002] Federally Enforceable Through Title V Permit
12. During start-up or shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Startup is defined as the period of time beginning when the unit is heated to the operating temperature and pressure from a shutdown status or hot standby condition and ending only when the unit is firing on biomass or wood residue and is in compliance with the NO_x, SO_x, and CO emission limits for non-startup operation and with the minimum ESP secondary power input specified in this permit. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
14. Shutdown is defined as 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 and pressure to an ambient temperature, or to a hot standby condition. Duration of shutdown shall not exceed 12 hours. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
15. Hot standby condition is defined as a condition in which all fuel feed has been curtailed and the boiler is secured at a temperature greater than the current ambient temperature. [District Rule 4352] Federally Enforceable Through Title V Permit
16. Flame stabilization is defined as any period in which supplemental use of a liquid or gaseous fuel is required in instances including control of one or more pollutants, or to alleviate or prevent unanticipated equipment outages or emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
17. This unit shall only be fired on biomass and wood residue, 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
18. The total annual heat input to the unit from natural gas combustion shall not exceed 612,324 MMBtu in any one calendar year. [District Rule 4001 and 40 CFR 60.44b(d)] Federally Enforceable Through Title V Permit
19. Biomass is defined as any organic material originating from plants, not chemically treated 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 residue. 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
20. Wood residue 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

21. Biomass and wood waste fuels shall not include pressure-treated wood and shall not contain compounds listed in Title 22, California Code of Regulations, 66261.24(a)(2)(A) in excess of the following concentrations by weight: 500 ppm antimony and/or antimony compounds, 500 ppm arsenic and/or arsenic compounds, 1,000 ppm asbestos, 10,000 ppm barium and/or barium compounds (excluding barite), 75 ppm beryllium and/or beryllium compounds, 100 ppm cadmium and/or cadmium compounds, 500 ppm chromium (VI) compounds, 2,500 ppm chromium and/or chromium (III) compounds, 8,000 ppm cobalt and/or cobalt compounds, 2,500 ppm copper and/or copper compounds, 18,000 ppm fluoride salts, 1,000 ppm lead and/or lead compounds, 20 ppm mercury and/or mercury compounds, 3,500 ppm molybdenum and/or molybdenum compounds, 2,000 ppm nickel and/or nickel compounds, 100 ppm selenium and/or selenium compounds, 500 ppm silver and/or silver compounds, 700 ppm thallium and/or thallium compounds, 2,400 ppm vanadium and/or vanadium compounds, and 5,000 ppm zinc and/or zinc compounds. [District Rule 4102]
22. Except during periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.065 lb-NO_x/MMBtu. Annual compliance with this limit shall be demonstrated by source testing. Ongoing compliance with this limit shall be determined from CEM data on a block 24-hour average basis as defined in District Rule 4352 (amended December 15, 2011). [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
23. During periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.74 lb-NO_x/MMBtu. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
24. NO_x emissions from this biomass-fired boiler shall not exceed 140.00 pounds in any one hour, as specified in District Rule 4301, Section 6.0. [District Rule 4301] Federally Enforceable Through Title V Permit
25. Except during periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.09 lb-CO/MMBtu. Initial and annual compliance with this limit shall be demonstrated by source testing. Ongoing compliance with this limit shall be determined from CEM data on a block 24-hour average basis. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
26. During periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.67 lb-CO/MMBtu. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
27. Except during periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.054 lb-SO_x/MMBtu. Initial and annual compliance with this limit shall be demonstrated by source testing. Ongoing compliance with this limit shall be determined from CEM data on a block 24-hour average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
28. During periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.27 lb-SO_x/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Except during periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.0214 lb-PM₁₀/MMBtu. Initial and annual compliance with this limit shall be demonstrated by source testing. [District Rule 2201] Federally Enforceable Through Title V Permit
30. During periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.078 lb-PM₁₀/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Except during periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.030 lb-PM/MMBtu. [40 CFR 60.43b(h)(1) and 40 CFR 63.11201] Federally Enforceable Through Title V Permit
32. Except during periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.009 lb-VOC/MMBtu. Initial and annual compliance with this limit shall be demonstrated by source testing. [District Rule 2201] Federally Enforceable Through Title V Permit
33. During periods of startup and shutdown, the emission rate from this biomass-fired boiler shall not exceed 0.068 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
34. The ammonia slip emission rate from this biomass-fired boiler shall not exceed 40 ppmvd @ 3% O₂. Annual compliance with this limit shall be demonstrated by source testing. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

35. The ammonia slip emission rate from this biomass-fired boiler shall not exceed 122,621 pounds during any rolling 12-consecutive month period. The daily ammonia emissions shall be calculated using ammonia emission factors (the most recent source test results), heat input to the boiler, and operating time. The daily emissions data shall be used to estimate monthly and annual (12-month rolling) ammonia emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
36. HCl emissions from this biomass-fired boiler shall not exceed 19,980 pounds in any rolling 365 consecutive day period. HCl emissions shall be calculated daily for comparison to this annual limit using the daily boiler heat input determined pursuant to 40 CFR Part 75, Appendix F, Equation F-15 and the emission factor calculated in the most recent HCl source test. If HCl emissions from the biomass boiler are determined to have exceeded 19,999 pounds in any rolling 365-day period, the owner/operator shall submit an Authority to Construct application to comply with 40 CFR 63 Subpart DDDDDD requirements within 30 days of the exceedance. [District Rules 2201 and 4002] Federally Enforceable Through Title V Permit
37. Emissions from this biomass-fired boiler shall not exceed any of the following limits: 1st Quarter: 53,837 lb-NO_x, 34,785 lb-SO_x, 26,824 lb-PM₁₀, 123,959 lb-CO, and 12,400 lb-VOC; 2nd Quarter: 53,837 lb-NO_x, 34,785 lb-SO_x, 26,824 lb-PM₁₀, 123,959 lb-CO, and 12,400 lb-VOC; 3rd Quarter: 53,838 lb-NO_x, 34,785 lb-SO_x, 26,824 lb-PM₁₀, 123,959 lb-CO, and 12,400 lb-VOC; 4th Quarter: 53,838 lb-NO_x, 34,785 lb-SO_x, 26,824 lb-PM₁₀, 123,959 lb-CO, and 12,400 lb-VOC. Compliance with NO_x, SO_x, and CO limits shall be determined from CEM data. Compliance with PM₁₀ and VOC limits shall be calculated using emission factors (the most recent source test results for non-startup/shutdown operation, or the startup/shutdown emission factors at all other times), heat input to the boiler, and operating time. [District Rule 2201] Federally Enforceable Through Title V Permit
38. 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 shall be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
39. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
40. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
41. This unit shall be tested for compliance with the NO_x, CO, PM₁₀, SO_x, VOC, and NH₃ at least once every 12 months. The PM source test required by condition 46 may be conducted in lieu of PM₁₀ testing required by this condition, provided all PM is assumed to be PM₁₀ as specified in condition 55. [District Rules 1081, 2201, and 4352, and 40 CFR 60.8(a)] Federally Enforceable Through Title V Permit
42. This unit shall be tested for compliance with the PM emission limit at least once every 36 months. [40 CFR 60.8(a), 40 CFR 60.43b(d), and 40 CFR 63.11220(a)] Federally Enforceable Through Title V Permit
43. This unit shall be tested to determine the HCl emission factor at least once every 12 months. The permittee shall measure and record the effluent pH and liquid flow rate in the wet scrubber every 15 minutes during the source test. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Permittee shall test fuel to determine the higher heating value at least once every 12 months. [District Rules 1081 and 2201, and 40 CFR 60.8(a)] Federally Enforceable Through Title V Permit
45. Permittee shall test fuel for contaminants at least once every 12 months, or whenever requested by the District. The District shall be notified at least 15 days prior to scheduled sample collection. [District Rules 2201 and 4102, and 40 CFR 60.8(a)] Federally Enforceable Through Title V Permit
46. Testing of the fuel for contaminants shall be conducted on a representative sample collected upstream of and as close as practicable to the fuel metering bins. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
47. Fuel shall be tested for contaminants in accordance with the wet extraction test procedure detailed in Title 22 California Code of Regulations, Division 4.5, Chapter 11, Appendix II. [District Rules 2201 and 4102] 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.

48. NO_x emissions for source test purposes shall be determined using EPA Methods 7E and 19 or ARB Method 100 and EPA Method 19. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
49. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
50. PM₁₀ emissions for source test purposes shall be determined using EPA Methods 201A, 202, and 19. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
51. In lieu of performing a source test for PM₁₀, the results of the total particulate test may be used for compliance with the PM₁₀ emission limit provided the results include both the filterable and condensable (back half) particulates, and that all particulate matter is assumed to be PM₁₀. If this option is exercised, source testing shall be conducted using CARB Method 5 or EPA Method 5 (including condensable (back half) particulates). [District Rule 1081] Federally Enforceable Through Title V Permit
52. PM emissions required to be source tested under condition 46 shall be determined using EPA Methods 5 or 17 (filterable (front half) PM only), and 19. [40 CFR 60.43b(d)(2) and 40 CFR 63.11212] Federally Enforceable Through Title V Permit
53. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
54. SO_x emissions for source test purposes shall be determined using EPA Method 6 or ARB Method 100. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
55. VOC emissions for source test purposes shall be determined using EPA Method 18, 25A, or 25B, or ARB Method 100. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
56. Source testing for ammonia slip shall be conducted utilizing BAAQMD Method ST-1B. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
57. HCl emissions for source test purposes shall be determined using EPA Methods 26 or 26A, and 19. [District Rule 2201] Federally Enforceable Through Title V Permit
58. Testing for fuel higher heating value shall be conducted using ASTM Method D5865-01a or District-approved equivalent method. [District Rules 1081 and 4352, and 40 CFR 75 Appendix F] Federally Enforceable Through Title V Permit
59. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, SO_x, and either O₂ or CO₂. The CEM shall meet the requirements of 40 CFR parts 60 (for CO) and 75 (for NO_x, SO_x, and O₂ or CO₂), except as specified in 40 CFR 60, Subpart Db, and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. The CEM shall be used to demonstrate compliance with the Rule 2201 emission limits. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit
60. Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) in accordance with 40 CFR 60.48b, and 40 CFR 60 Appendices B and F. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. The COMS shall be used to demonstrate compliance with the opacity requirements of 40 CFR 43b(f) and (g). [District Rules 1080 and 2201, and 40 CFR 60.48b(a)] Federally Enforceable Through Title V Permit
61. Permittee shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
62. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

63. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and either an O₂ or CO₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
64. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
65. Permittee shall perform a relative accuracy test audit (RATA), as specified by 40 CFR Part 75, Appendix B, 2.3.1 for the NO_x, SO_x, and O₂ or CO₂ CEM, at least once every two successive QA operating quarters (as defined in 40 CFR 72.2) unless the monitor satisfies the requirements for reduced RATA frequencies in Section 2.3.1.2. Permittee shall perform a RATA, as specified by 40 CFR Part 60, Appendix F for the CO CEM, at least once every four calendar quarters. Permittee shall perform a cylinder gas audit (CGA) or relative accuracy audit (RAA), as specified by 40 CFR Part 60, Appendix F for the CO CEM in three of four calendar quarters, but no more than three quarters in succession. The District must be notified at least 30 days prior to any RATA, and a test plan shall be submitted for approval at least 15 days prior to testing. The results of each RATA shall be submitted to the District within 60 days thereafter. [District Rule 1080] Federally Enforceable Through Title V Permit
66. Permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendix B for the NO_x, SO_x, and O₂ or CO₂ CEM, and in 40 CFR Part 60, Appendix F for the CO CEM. [District Rule 1080] Federally Enforceable Through Title V Permit
67. 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
68. 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] Federally Enforceable Through Title V Permit
69. 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
70. Permittee shall maintain records of the date and duration of start-up and shutdown periods. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
71. Permittee shall record the heat input to the unit from each fuel combusted on a daily basis. Permittee shall maintain records of the annual capacity factor for each fuel combusted on a 12-month rolling average basis, and shall update the annual capacity factor for each fuel at the end of each calendar month. [District Rules 1070 and 4001, and 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
72. Permittee shall retain and maintain on site all data from the continuous opacity monitoring system. [District Rules 1070 and 4001, and 40 CFR 60.39b(f)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

73. Permittee shall maintain, on at least a monthly basis, an operating log that includes the type and quantity of fuel used, and the higher heating value of each fuel, as determined by Section 6.3 of District Rule 4352 (12/15/11), or as certified by a third party fuel supplier. [District Rules 1070 and 4352 and 40 CFR 63.11222(a)(2)] Federally Enforceable Through Title V Permit
74. Permittee shall maintain records of emissions from this boiler on a calendar quarter basis. Records of quarterly emissions shall be updated at least once each calendar month in which the boiler operates. [District Rule 2201] Federally Enforceable Through Title V Permit
75. Permittee shall maintain records of HCl emissions from this boiler on a rolling consecutive day basis. Records of HCl emissions shall be updated at least once each calendar day in which the boiler operates. [District Rules 2201, 4002, and 4102] Federally Enforceable Through Title V Permit
76. The permittee shall maintain records of the criteria used to establish that the unit qualifies as a small power production facility under section 3(17)(C) of the Federal Power Act (16 U.S.C. 796(17)(C)) and that the waste material the unit is proposed to burn is homogeneous (not including refuse-derived fuel). [40 CFR 60.2175(w)] Federally Enforceable Through Title V Permit
77. The permittee shall prepare, by March 1 of each year, and submit to the District upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 60.11225(b)(1) through (4). [40 CFR 63.11225(b)] Federally Enforceable Through Title V Permit
78. Permittee shall keep required records, as applicable, pursuant to 40 CFR 63.11225(c). [40 CFR 63.11225(c)] Federally Enforceable Through Title V Permit
79. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 2201, 4352, and 40 CFR 63.11225(d)] 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-645-37-2

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

BIOMASS RECEIVING OPERATION WITH THREE TRUCK UNLOADING HOPPERS, A DISC SCREEN AND HOGGER, AND ASSOCIATED CONVEYORS, AND BIOMASS STORAGE OPERATION WITH UP TO 5.5 ACRES OF BIOMASS STORAGE PILES

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ 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
2. All stockpiled biomass shall be covered, or maintained adequately moist, to prevent visible emissions in excess of 20% opacity as determined using EPA Method 9. Permittee shall use water sprays or other dust suppression techniques as necessary to ensure compliance with this opacity limit. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from the disc screen, fuel hogger, and all conveyor transfer points shall not exceed 20% opacity as determined using EPA Method 9. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall monitor the disc screen, fuel hogger, and all conveyor transfer points for visible emissions, as determined using EPA Method 22 on a daily basis. Daily monitoring shall take place at an appropriate time each day depending on plant start time and sunrise, but shall in any event be conducted before 12:00 PM. If visible emissions are detected, permittee shall take corrective action and eliminate visible emissions within 1 hour after detection. If visible emissions cannot be eliminated within 1 hour after detection, a visible emissions test using EPA Method 9 shall be conducted while the visible emissions are ongoing to determine if the visible emissions exceed the limits specified in this permit. Visible emissions less than 20% opacity as determined using EPA Method 9 shall not constitute a violation of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
5. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
6. PM10 emissions from the biomass fuel receiving operation shall not exceed 0.000301 lb/ton on a daily average basis and 0.000527 lb/ton on an annual average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Biomass fuel received by the receiving and storage operation shall not exceed 2,732 tons in any one day and 470,080 tons in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Emissions from the biomass fuel storage piles shall not exceed 0.24 lb-PM10 per acre of fuel storage piles per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of the quantity of biomass fuel received each day, in tons. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
11. 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 or Rule 8011. [District Rules 8011 and 8021] 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. An owner/operator shall submit a Dust Control Plan to the APCO prior to the start of any construction activity on any site that will include 10 acres or more of disturbed surface area for residential developments, or 5 acres or more of disturbed surface area for non-residential development, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials on at least three days. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
13. When handling bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, wind barriers with less than 50% porosity shall also be used. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
14. When storing bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, all bulk material piles shall also be either maintained with a stabilized surface as defined in Section 3.58 of District Rule 8011, or shall be protected with suitable covers or barriers as prescribed in Table 8031-1, Section B, of District Rule 8031. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
15. When transporting bulk materials outside an enclosed structure or building, all bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load, or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
16. All outdoor chutes and conveyors shall be controlled by any of the following options: 1) full enclosure, 2) operation with water spray equipment that sufficiently wets materials to limit VDE to 20% opacity, or 3) the concentration of particles having an aerodynamic diameter of 10 microns or less in the conveyed material shall be sufficiently small to limit VDE to 20% opacity. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
17. Records and other supporting documentation shall be maintained as required to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. Records shall be kept for one year following project completion that results in the termination of all dust generating activities. [District Rules 8011, 8031, and 8071] Federally Enforceable Through Title V Permit
18. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011(8/19/04). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
19. 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 or Rule 8011. [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
20. 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 or Rule 8011. [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
21. Where dusting materials are allowed to accumulate on paved surfaces, the accumulation shall be removed daily or water and/or chemical/organic dust stabilizers/suppressants shall be applied to the paved surface as required to maintain continuous compliance with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011 and limit Visible Dust Emissions (VDE) to 20% opacity. [District Rule 8011 and 8071] Federally Enforceable Through Title V Permit
22. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, permittee shall apply water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011. [District Rule 8011 and 8071] 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. Whenever any portion of the site becomes inactive, permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in Section 3.58 of District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
24. Water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011. [District Rule 8011 and 8071] 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-645-38-2

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

BIOMASS FUEL HANDLING OPERATION WITH BIOMASS METERING BINS, RECLAIM CONVEYORS, AND OTHER ASSOCIATED CONVEYORS

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ 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
2. Visible emissions from all conveyor transfer points shall not exceed 20% opacity as determined using EPA Method 9. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Permittee shall not cause or allow visible emissions from any conveyor transfer point, as determined using EPA Method 22 on a daily basis. Daily inspections shall take place at an appropriate time each day depending on plant start time and sunrise. If visible emissions cannot be corrected within 1 hour after detection, a visible emissions test using EPA Method 9 shall be conducted while the visible emissions are ongoing to determine if the visible emissions exceed the limit in condition 4. Visible emissions less than 20% opacity as determined using EPA Method 9, or that are corrected within 1 hour after detection, shall not constitute a violation of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions from the biomass fuel handling system, based on the quantity of fuel processed through the fuel metering bins, shall not exceed 0.000203 lb/ton on a daily average basis and 0.000227 lb/ton on an annual average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The quantity of fuel processed through the fuel metering bins shall not exceed 1,951 tons in any one day and 470,080 in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Permittee shall maintain records of the quantity of biomass fuel processed through the fuel metering bins each day, in tons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When handling bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, wind barriers with less than 50% porosity shall also be used. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
10. When transporting bulk materials outside an enclosed structure or building, all bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load, or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. All outdoor chutes and conveyors shall be controlled by any of the following options: 1) full enclosure, 2) operation with water spray equipment that sufficiently wets materials to limit VDE to 20% opacity, or 3) the concentration of particles having an aerodynamic diameter of 10 microns or less in the conveyed material shall be sufficiently small to limit VDE to 20% opacity. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
12. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011(8/19/04). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
13. Where dusting materials are allowed to accumulate on paved surfaces, the accumulation shall be removed daily or water and/or chemical/organic dust stabilizers/suppressants shall be applied to the paved surface as required to maintain continuous compliance with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011 and limit Visible Dust Emissions (VDE) to 20% opacity. [District Rule 8011 and 8071] Federally Enforceable Through Title V Permit
14. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, permittee shall apply water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011. [District Rule 8011 and 8071] Federally Enforceable Through Title V Permit
15. Whenever any portion of the site becomes inactive, permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in Section 3.58 of District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
16. Records and other supporting documentation shall be maintained as required to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. Records shall be kept for one year following project completion that results in the termination of all dust generating activities. [District Rules 8011, 8031, and 8071] Federally Enforceable Through Title V Permit
17. 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 or Rule 8011. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
18. An owner/operator shall submit a Dust Control Plan to the APCO prior to the start of any construction activity on any site that will include 10 acres or more of disturbed surface area for residential developments, or 5 acres or more of disturbed surface area for non-residential development, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials on at least three days. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
19. 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 or Rule 8011. [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
20. 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 or Rule 8011. [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
21. Water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011. [District Rule 8011 and 8071] 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-645-40-2

EXPIRATION DATE: 11/30/2025

EQUIPMENT DESCRIPTION:

BIOMASS RECEIVING AND STORAGE OPERATION WITH UP TO THREE ACRES OF BIOMASS STORAGE PILES

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ 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
2. All stockpiled biomass shall be covered, or maintained adequately moist, to prevent visible emissions in excess of 20% opacity as determined using EPA Method 9. Permittee shall use water sprays or other dust suppression techniques as necessary to ensure compliance with this opacity limit. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from all transfer points shall not exceed 20% opacity as determined using EPA Method 9. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall monitor all transfer points for visible emissions, as determined using EPA Method 22 on a daily basis. Daily monitoring shall take place at an appropriate time each day depending on plant start time and sunrise, but shall in any event be conducted before 12:00 PM. If visible emissions are detected, permittee shall take corrective action and eliminate visible emissions within 1 hour after detection. If visible emissions cannot be eliminated within 1 hour after detection, a visible emissions test using EPA Method 9 shall be conducted while the visible emissions are ongoing to determine if the visible emissions exceed the limits specified in this permit. Visible emissions less than 20% opacity as determined using EPA Method 9 shall not constitute a violation of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions from the truck walking bed unloading operation shall not exceed 0.000052 lb/ton biomass received. [District Rule 2201] Federally Enforceable Through Title V Permit
6. PM10 emissions from the material transfer via front loader from unloading area to storage pile shall not exceed 0.000052 lb/ton biomass received. [District Rule 2201] Federally Enforceable Through Title V Permit
7. PM10 emissions from the material transfer via front loader from the storage pile to trucks shall not exceed 0.000052 lb/ton biomass received. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Biomass fuel received by the receiving and storage operation shall not exceed 500 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from the biomass fuel storage piles shall not exceed 0.00153 lb-PM10 per 1000 ft² of fuel storage piles per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The area of the fuel storage piles shall not exceed 3 acres. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Permittee shall maintain records of the quantity of biomass fuel received each day, in tons and the area of the storage piles. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. 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 or Rule 8011. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
14. An owner/operator shall submit a Dust Control Plan to the APCO prior to the start of any construction activity on any site that will include 10 acres or more of disturbed surface area for residential developments, or 5 acres or more of disturbed surface area for non-residential development, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials on at least three days. [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
15. When handling bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, wind barriers with less than 50% porosity shall also be used. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
16. When storing bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, all bulk material piles shall also be either maintained with a stabilized surface as defined in Section 3.58 of District Rule 8011, or shall be protected with suitable covers or barriers as prescribed in Table 8031-1, Section B, of District Rule 8031. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
17. When transporting bulk materials outside an enclosed structure or building, all bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load, or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
18. All outdoor chutes and conveyors shall be controlled by any of the following options: 1) full enclosure, 2) operation with water spray equipment that sufficiently wets materials to limit VDE to 20% opacity, or 3) the concentration of particles having an aerodynamic diameter of 10 microns or less in the conveyed material shall be sufficiently small to limit VDE to 20% opacity. [District Rules 2201, 8011, and 8031] Federally Enforceable Through Title V Permit
19. Records and other supporting documentation shall be maintained as required to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. Records shall be kept for one year following project completion that results in the termination of all dust generating activities. [District Rules 8011, 8031, and 8071] Federally Enforceable Through Title V Permit
20. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011(8/19/04). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
21. 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 or Rule 8011. [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
22. 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 or Rule 8011. [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
23. Where dusting materials are allowed to accumulate on paved surfaces, the accumulation shall be removed daily or water and/or chemical/organic dust stabilizers/suppressants shall be applied to the paved surface as required to maintain continuous compliance with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011 and limit Visible Dust Emissions (VDE) to 20% opacity. [District Rule 8011 and 8071] 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.

24. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, permittee shall apply water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011. [District Rule 8011 and 8071] Federally Enforceable Through Title V Permit

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