

July 23, 2021

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

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: N-645
Project Number: N-1202108

Dear Mr. Crook:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for DTE Stockton, LLC at 2526 Washington Street, Stockton, California.

The notice of preliminary decision for this project has been posted on the District's website (www.valleyair.org). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. 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
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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
DTE Stockton, LLC
N-645**

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TITLE V PERMIT RENEWAL EVALUATION

Biomass Power Generation Facility

Engineer: Jagmeet Kahlon
Date: July 23, 2021

Facility Number: N-645
Facility Name: DTE Stockton, LLC
Mailing Address: 2526 W Washington St
Stockton, CA 95203

Contact Name: Justin Cook
Title: Plant Manager
Phone: (209) 320-3731

Responsible Official: Justin Cook
Title: Plant Manager

Project # : N-1202108
Deemed Complete: June 8, 2020

I. PROPOSAL

DTE Stockton, LLC submitted an application to renew their Title V permit on May 29, 2020, which was within the timeframe required by Section 5.2 of District Rule 2520. Therefore, all terms and conditions of the Title V permit shall remain in effect until the renewal permit has been issued pursuant to Section 8.3 of District Rule 2520. During this renewal process, the existing permits will be revised to include any updated or new requirements from District, State and Federal rules that were adopted or amended since the issuance of the previous Title V permit renewal that was finalized on October 29, 2015.

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

II. FACILITY LOCATION

The facility is located at 2526 W Washington Street in Stockton, California.

III. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant has requested to use the following model general permit templates:

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

The applicant has requested to utilize template SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

Conditions 1 through 40 in facility-wide permit requirement permit N-645-0-5 including their underlying applicable requirements originate from template SJV-UM-0-3 and are not subject to further EPA or public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

The following rules are updated since the previous Title V renewal on October 29, 2015.

- District Rule 2201, New and Modified Stationary Source Review Rule
(Amended August 15, 2019)
- District Rule 2520, Federally Mandated Operating Permits
(Amended August 15, 2019)
- 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
(Amended December 4, 2020)
- 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
(Amended December 4, 2020)
- 40 CFR Part 63 Subpart JJJJJJ, National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
(Amended September 14, 2016)
- 40 CFR Part 63 Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
(Amended December 28, 2020)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners
(Amended March 24, 2021)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction
(Amended April 10, 2020)

B. Rules Removed

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

C. Rules Added

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

D. Rules Not Updated

- District Rule 1070, Inspections
(Amended December 17, 1992)
- District Rule 1080, Stack Monitoring
(Amended December 17, 1992)
- District Rule 1081, Source Sampling
(Amended December 16, 1993)
- District Rule 2010, Permits Required
(Amended December 17, 1992)
- District Rule 2031, Transfer of Permits
(Amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications
(Amended December 17, 1992)
- District Rule 2080, Conditional Approval
(Amended December 17, 1992)
- District Rule 2410, Prevention of Significant Deterioration
(Effective November 26, 2012)
- District Rule 4101, Visible Emissions
(Amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration
(Amended December 17, 1992)
- District Rule 4202, Particulate Matter – Emission Rate
(Amended December 17, 1992)

- District Rule 4301, Fuel Burning Equipment
(Amended December 17, 1992)
- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators and Process Heaters
(Amended December 15, 2011)
- District Rule 4601, Architectural Coatings
(Amended December 17, 2009)
- District Rule 4701, Internal Combustion Engines – Phase 1
(Amended August 21, 2003)
- District Rule 4702, Internal Combustion Engines
(Amended November 14, 2013)
- District Rule 4801, Sulfur Compounds
(Amended December 17, 1992)
- District Rule 8011, General Requirements
(Amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction and Other Earthmoving Activities
(Amended August 19, 2004)
- District Rule 8031, Bulk Materials
(Amended August 19, 2004)
- District Rule 8041, Carryout and Trackout
(Amended August 19, 2004)
- District Rule 8051, Open Areas
(Amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads
(Amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
(Amended September 16, 2004)

- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
(Amended July 20, 2004)

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

A. Rules Added

None

B. Rules Not Updated

- District Rule 1100, Equipment Breakdown
(Amended December 17, 1992)
- District Rule 1160, Emission Statements
(Adopted November 18, 1992)
- District Rule 2040, Applications
(Amended December 17, 1992)
- District Rule 4102, Nuisance
(Amended December 17, 1992)
- District Rule 7012, Hexavalent Chromium – Cooling Towers
(Amended December 17, 1992)
- Title 17 California Code of Regulations (CCR) Section 93115, Airborne Toxic Control Measure for Stationary Compression Ignition Engines
(Adopted February 26, 2004)

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements and to ensure the renewed operating permit contains conditions enforcing the requirements of all applicable federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the previous Title V permit.

District Rule 2201, New and Modified Stationary Source Review Rule

District Rule 2201 has been amended since this facility's previous Title V permit was issued. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from previous NSR permit actions have already been incorporated into the current Title V permit.

District Rule 2520, Federally Mandated Operating Permits

This rule has been amended since this facility's previous Title V permit was issued. The District had enhanced its public notice process by making available a higher quality of information in the form of more detailed notices on the District's website in both English and Spanish combined with project related documents accessible 24 hours a day and 7 days a week for the entire duration of the comment period. This rule amendment does not require any changes to existing permit conditions. Thus, continued compliance is expected.

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

Permit N-645-33 includes a 355 bhp emergency compression-ignited (CI) reciprocating internal combustion engine (RICE) that powers an electrical generator. This engine is the only unit potentially subject to Subpart IIII requirements. This engine was installed prior to the Subpart IIII cutoff date of July 11, 2005, and has not been modified since installation. Therefore, this engine is not subject to the requirements of this subpart.

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

Section 60.4200 lists the applicability requirements of Subpart ZZZZ as follows:

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

Per project N-1180873 (4/3/2019), the facility is not a major source of HAP emissions; rather, it is only an area source of HAP emissions. Since that time, there have not been any projects that would result in an increase in HAP emissions. Therefore, the facility is still an area source of HAP emissions. The engine under permit N-645-33 is an “existing” engine under this subpart since it was installed prior to the cutoff date, June 12, 2006.

The engine is subject to table 2d of the subpart, which lists periodic maintenance requirements for the engine. This engine is required to change the oil and filter every 500 hours of operation or annually, whichever comes first. The facility has the option of performing an oil analysis in order to reduce the frequency of oil changes. This option will be included on the permit. The air cleaner is required to be inspected after 1000 hours of operation, or annually, whichever comes first, and to be replaced as necessary. Finally, the table requires the operator to inspect all hoses and belts every 500 hours of operation, and to replace the hoses as necessary.

Conditions #4 through #7 of the draft renewed TV permit N-645-33-8 enforces the above requirements.

The subpart requires the use of low-sulfur diesel fuel. The use of CARB diesel fuel satisfies Subpart IIII requirements.

Conditions #8 of the draft TV permit N-645-33-7 enforces the above fuel requirements.

Section 63.6605 lists general requirements for engines subject to Subpart IIII. The permittee is required to operate the engine per manufacturer’s emission related written instructions and in a manner that minimizes emissions.

Condition #16 of the draft renewed TV permit N-645-33-8 enforces the general requirements of Subpart IIII.

Section (f) states that if you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. The engine under permit N-645-33 is equipped with a non-resettable hour meter or other District approved alternative.

Condition #3 of the draft renewed TV permit N-645-33-8 enforces this requirement.

Section (g) applies to an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system.

The engine under permit N-645-33 is an emergency CI engine. Therefore, this section does not apply.

Section (h) states if you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

The engine under permit N-645-33 is not subject to the emissions standards in this subpart. Thus, this section does not apply.

Section (i) states if you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 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.

Condition # 5 of the draft renewed TV permit N-645-33-8 enforces the above requirement.

Section 63.6630 lists initial compliance demonstration requirements with the emission limitations, operating limitations, and other requirements.

The engine is already operating in compliance with Subpart IIII requirements; therefore, initial compliance has already been demonstrated.

Section 63.6640 lists the method required to demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements of Subpart IIII. The engine may not be used more than 50 hours for non-emergency situations. Additionally, the engine must meet the work practices discussed earlier in this evaluation, such as oil changes.

The engine is subject to work management practices, as described earlier, and is only allowed to operate 20 hours outside of emergency situations (condition #9). Thus, compliance with these requirements is expected.

Section 63.6655(e) states that the operator must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE:

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

Condition #17 of the draft renewed TV permit N-645-33-8 enforces the above requirements.

Section (f) states that owners/operators of any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour

meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

Condition #14 of the draft renewed TV permit N-645-33-8 enforces the above requirement.

Section 63.6660 requires records to be kept for 5 years and to be made available upon request.

Condition #18 of the draft renewed TV permit N-645-33-8 enforces the above requirement.

Compliance is expected with this subpart.

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

This subpart is applicable to biomass boilers located at an area source of HAP emissions. As explained earlier, DTE Stockton is an area source of HAP emissions; therefore, Subpart JJJJJJ requirements are applicable to the boiler. Since the subpart has been updated since the last renewal, an analysis will be performed to ensure all of the updated requirements are addressed in the permit.

Section 63.11201(a) requires the boiler to comply with each applicable emission limit listed in Table 1 of Subpart JJJJJJ, based on the subcategory of boiler. Table 1 subcategory 3 requires the boiler to meet a filterable PM limit of 0.03 lb/MMBtu of heat input.

Condition #31 of the draft renewed TV permit N-645-36-7 enforces this requirement.

Section 63.11201(b) requires the boiler to comply with each work practice standard listed in Table 2 of Subpart JJJJJJ, based on the subcategory of boiler. Table 2 subcategory 7 requires the operator to conduct a tune-up of the boiler biennially as specified in Section 63.11223.

Condition #6 of the draft renewed TV permit TV permit N-645-36-7 enforces this requirement.

Section 63.11201(c) states that the boiler must comply with each applicable operating limit specified in Table 3 of Subpart JJJJJJ. The boiler maintains compliance with the applicable PM limit using an electrostatic precipitator. Therefore, Table 3 subcategory 2 requires the operator to:

- a. Maintain opacity to less than or equal to 10 percent opacity (daily block average); OR
- b. Maintain the 30-day rolling average total secondary electric power of the electrostatic precipitator at or above the minimum total secondary electric power as defined in Section 63.11237.

Conditions #8 and #9 of the draft renewed TV permit N-645-36-7 enforces this requirement.

Section 63.11201(d) states that the above requirements do not apply during startup and shutdown, except for compliance with the requirements of Table 2.

Section 63.11205(a) states that the boiler must be operated and maintained at all times, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

Condition #4 of the draft renewed TV permit N-645-36-7 enforces this requirement

Section 63.11205(b) states that the operator must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis or a continuous monitoring system including a CEMS, a continuous opacity monitoring system, or a continuous parameter monitoring system (CPMS).

As stated earlier, Conditions #8 and #9 of the draft renewed TV permit N-645-36-7 requires the permittee to operate a CPMS for the electrostatic precipitator. Continued compliance is expected.

Sections 63.11210 through 63.11214 list requirements for initial compliance with Subpart JJJJJJ requirements. Initial compliance for this boiler has already been satisfied. Therefore, no further discussion is required for these sections.

Section 63.11220 lists performance test requirements for continuous compliance with the Subpart JJJJJJ. Section 63.11220(a) requires triennial testing for performance tests.

Condition #42 of the draft renewed TV permit N-645-36-7 enforces this requirement.

Section 63.1120(b) allows facilities to delay their triennial tests until September 14, 2021, if the initial test demonstrates that PM is less than half of the applicable limit. This facility has been conducting the triennial testing and last tested the equipment on May 27, 2020; therefore, this section is not applicable.

Section 63.1120(c) is applicable to new or reconstructed boilers after September 14, 2016. This boiler was constructed prior to this date, and has not been reconstructed. Therefore, the requirements of this section are not applicable.

Section 63.1120(d) is applicable to boilers that are subject to a mercury standard. This boiler is only subject to a PM standard; therefore, this section is not applicable.

Section 63.1120(e) is only applicable to units not firing on solid-fuel during the past 3 years. This boiler is fired on solid-fuel; therefore, the requirement is not applicable.

Section 63.1121 lists the minimum amount of monitoring data required to comply with Subpart JJJJJJ.

Section 63.1121(a) states that the facility must monitor and collect data according to that section and according to the facility's site-specific monitoring plan. Section 63.1121(b) states that the facility must operate the monitoring system and collect data at all required intervals.

Conditions #8 and #9 of the draft renewed TV permit N-645-36-7 enforce these requirements.

Section 63.11222(a) states that the facility must demonstrate compliance with each applicable emission limit and operating limit in Tables 1 and 3 of this subpart as outlined in Table 7 of this subpart and as follows:

1. Following the initial determination of compliance, the operator must continuously monitor the operating parameters within the minimum and maximum accepted values to demonstrate continuous compliance.
2. If the operation is subject to a PM limit, the facility must keep records of the type and amount of all fuels burned in the boiler.

3. If the operation is subject to a mercury limit and a new type of fuel or fuel mixture will be burned, a performance test must be conducted within 60 days of commencing operation on the new fuel or fuel mixture.
4. If the unit is controlled by a fabric filter and compliance is demonstrated using a bag leak detection system, the operator must initiate corrective action within 1 hour of a bag leak detection system alarm.

The boiler is not subject to a mercury limit and does not utilize a fabric filter. Thus, items 3 and 4, above, are not applicable.

Conditions #8, #9, and #73 of the draft renewed TV permit N-645-36-7 enforces the above requirements.

Section 63.11223 lists the requirements for the tune-up of the boiler.

Condition #6 of the draft renewed TV permit N-645-36-7 enforces this requirement.

Section 63.11224 lists the monitoring, installation, operation, and maintenance requirements of Subpart JJJJJJ. Section 63.11224(a) lists the requirements for units subject to a CO emission limit in Table 1 of this subpart. The boiler is not subject to a CO emission limit; therefore, the requirements of 63.11224(a) are not applicable.

Section 63.11224(b) states that if a control device is used to comply with the emission limits specified in Table 1, the operator must maintain each operating limit in Table 3 of this subpart that applies as specified in Table 7 of this subpart.

Conditions #8 and #9 of the draft renewed TV permit N-645-36-7 enforces the above requirements.

Section 63.11225 lists the notification, reporting, and recordkeeping requirements of Subpart JJJJJJ.

Section 63.11225(a)(1) through (5) lists initial notification requirements for boilers subject to this Subpart. These requirements have already been satisfied. Section 63.11225(b) states that the operator must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year pursuant to the 63.1125(b)(1) through (4).

Condition #77 of the draft renewed TV permit N-645-36-7 enforces this requirement.

Section 63.11225(c) states that the following records must be kept:

1. A copy of each notification and report that the permittee submitted to comply with Subpart JJJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted.
2. Records to document conformance with the work practices, emission reduction measures, and management practices required by this Subpart, including:
 - a. The date of tune-up of the boiler, the procedures followed for the tune-up, and the manufacturer's specifications to which the boiler was tuned.
 - b. Monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used.
3. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
4. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Section 63.11205.
5. Records of all inspection and monitoring data required by Sections 63.1121 and 63.11222.

Condition #78 of the draft renewed TV permit N-645-36-7 enforces these requirements.

Section 63.11225(d) requires all records to be kept for five years, and to be made available for inspection upon request.

Condition #79 of the draft renewed TV permit N-645-36-7 enforces this requirement.

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

This subpart is applicable to new, reconstructed, and existing industrial, commercial, institutional boilers, or process heaters located at a Major Source of HAP emissions. A Major Source of HAP emissions is any facility with a potential to emit, considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants.

As stated earlier in this evaluation, DTE Stockton is not a major source of HAP emissions; therefore, Subpart DDDDD requirements are not applicable.

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

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

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

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

N-645-8: Dry Sorbent Receiving Silo #1 Controlled With a Fabric Filter Baghouse

This permit limits dry sorbent receiving rate to 27,375 tons/yr. Further, the permit limits PM₁₀ emissions to 0.00039 lb/ton of material received and stored. A baghouse control efficiency of 99% is assumed. Using these values, the uncontrolled emission rate would be:

$$\begin{aligned} \text{PE (uncontrolled)} &= (27,375 \text{ tons/hr})(0.00039 \text{ lb-PM}_{10}/\text{ton of material})/(1-0.99) \\ &= 1,068 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Since the uncontrolled emission rate is less than the major source threshold of 140,000 lb/year for PM₁₀, CAM is not required for this unit.

N-645-9-8: Dry Sorbent Receiving Silo #2 Controlled With A Fabric Filter Baghouse

This permit limits dry sorbent receiving rate to 27,375 tons/yr. Further, the permit limits PM10 emissions to 0.00039 lb/ton of material received and stored. A baghouse control efficiency of 99% is assumed. Using these values, the uncontrolled emission rate would be:

$$\begin{aligned} \text{PE (uncontrolled)} &= (27,375 \text{ tons/hr})(0.00039 \text{ lb-PM}_{10}/\text{ton of material})/(1-0.99) \\ &= 1,068 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Since the uncontrolled emission rate is less than the major source threshold of 140,000 lb/year for PM₁₀, CAM is not required for this unit.

N-645-12-7; 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

There are multiple emission units in this permit. CAM evaluation for each unit is as following:

Conveying fly-ash from mechanical collectors, ESP and SCR system to fly-ash silos:

Per application review under project N-1191367,

$$\begin{aligned} \text{EF (uncontrolled)} &= 0.0049 \text{ lb-PM}_{10}/\text{ton of material loaded} \\ \text{Process rate} &= 120 \text{ tons/day} \end{aligned}$$

$$\begin{aligned} \text{PE (uncontrolled)} &= (120 \text{ tons/day})(0.0049 \text{ lb-PM}_{10}/\text{ton of material})(365 \text{ days/yr}) \\ &= 215 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Loading fly-ash into pug-mill:

Per permit N-645-12-7,

$$\begin{aligned} \text{EF (uncontrolled)} &= 0.0028 \text{ lb-PM}_{10}/\text{ton of material loaded} \\ \text{Process rate} &= 120 \text{ tons/day} \end{aligned}$$

$$\begin{aligned} \text{PE (uncontrolled)} &= (120 \text{ tons/day})(0.0028 \text{ lb-PM}_{10}/\text{ton of material})(365 \text{ days/yr}) \\ &= 123 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Loading wet fly-ash from pug mill to truck trailer:

Per application review under project N-1191367, moisture content in wet fly ash is about 15% by weight. Due to high moisture, this operation is not expected to generate any particulate matter emissions. Therefore,

$$\text{PE (uncontrolled)} = 0 \text{ lb-PM}_{10}/\text{year}$$

Loading fly-ash into truck trailer via telescopic spout:

Per application review under project N-1191367,

$$\text{EF (uncontrolled)} = 0.0028 \text{ lb-PM}_{10}/\text{ton of material loaded}$$

$$\begin{aligned} \text{PE (uncontrolled)} &= (120 \text{ tons/day})(0.0028 \text{ lb-PM}_{10}/\text{ton of material})(365 \text{ days/yr}) \\ &= 123 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Since the uncontrolled emission rate from each source operation is less than the major source threshold of 140,000 lb/year for PM₁₀, CAM is not required for any of these operations.

N-645-33-5: 355 Bhp Cummins Model #Nt855-G2 Diesel-Fired Emergency Standby IC Engine Powering An Electrical Generator

This permit includes emission limits for NO_x, SO_x, PM₁₀, CO and VOC emissions. The engine is not equipped with any add-on control devices to reduce any of these pollutants; therefore, CAM is not required for this unit.

N-645-34-6: 43,000 Gallons Per Minute Cooling Tower With A High Efficiency Drift Eliminator

This permit includes emission limits for VOC and PM₁₀ emissions. The cooling tower is equipped with high efficiency drift eliminators. Drift eliminators do not meet the definition of a "control device" (defined in Part 64.1) since it does not destroy or remove air pollutants. Furthermore, drift eliminator is "inherent process equipment" (defined in Part 64.1) since it is typically installed on cooling towers to limit loss of water vapor into the atmosphere. Therefore, CAM is not required for this unit.

N-645-36-6: 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

NO_x, SO_x, CO:

The exhaust stack is equipped with continuous emissions monitoring system (CEMS) to monitor NO_x, SO_x and CO emissions. Therefore, CAM is not required for these pollutants.

PM₁₀:

The boiler is equipped with an electrostatic precipitator (ESP) to reduce PM₁₀ emissions. Further, the current permit to operate (PTO) limits, PM₁₀ emissions from the boiler to 107,296 lb/yr, after the controls.

Presuming 99% reduction in PM₁₀ due to the use of ESP, the uncontrolled emissions would be:

$$\begin{aligned} \text{PE (uncontrolled)} &= (107,296 \text{ lb-PM}_{10}/\text{yr}) \div (1-0.99) \\ &= 10,729,600 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Since the boiler is equipped with an ESP, permit has PM₁₀ emission limit, and uncontrolled PM₁₀ are greater than major source threshold of 140,000 lb/yr for PM₁₀, CAM is required for PM₁₀.

CAM for PM₁₀ was addressed in the previous TV renewal evaluation and the applicant is not proposing to modify their existing CAM plan. Condition #9 of the draft renewed TV permit N-645-36-7 will continue to enforce the CAM requirements for this unit.

VOC:

This boiler is not equipped with an add-on control device to reduce VOC emissions. Therefore, CAM is not required.

N-645-37-1: 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
N-645-38-1: Biomass Fuel Handling Operation With Biomass Metering Bins, Reclaim Conveyors, And Other Associated Conveyors
N-645-40-1: Biomass Receiving And Storage Operation With Up To Three Acres Of Biomass Storage Piles

These permit units do not utilize any add-on control device. Therefore, these units are not subject to CAM requirements.

**40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners
40 CFR Part 82, Subpart F, Recycling and Emissions Reduction**

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC). These subparts has been updated. The updated requirements does not alter the renewed permits.

Conditions #27 and #28 of the draft renewed TV permit N-645-0-5 enforces this requirement.

IX. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

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

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any new permit shields. Therefore, no further discussion is necessary.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XII. ATTACHMENTS

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

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley

Air Pollution Control District

FACILITY: N-645-0-5

EXPIRATION DATE: 11/30/2020

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. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. 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. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: DTE STOCKTON, LLC
Location: 2526 W WASHINGTON ST, STOCKTON, CA 95203
N-645-0-5 : Jul 23 2021 3:21PM -- HARADERJ

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
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. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation) [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. 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. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. 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: 11/30/2020

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: 11/30/2020

EQUIPMENT DESCRIPTION:

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

DRAFT

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.

DRAFT

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: 11/30/2020

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: 11/30/2020

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 not 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: 11/30/2020

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: 11/30/2020

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: 11/30/2020

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.

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-645-38-2

EXPIRATION DATE: 11/30/2020

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: 11/30/2020

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.

DRAFT

ATTACHMENT B

Previous Title V Operating Permit

Permit to Operate

FACILITY: N-645

EXPIRATION DATE: 11/30/2020

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-645-0-4

EXPIRATION DATE: 11/30/2020

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 (8/18/11). [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-645-0-4 : Jul 23 2021 2:53PM -- HARADERJ

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-645-8-8

EXPIRATION DATE: 11/30/2020

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-645-9-8

EXPIRATION DATE: 11/30/2020

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

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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-645-12-7

EXPIRATION DATE: 11/30/2020

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-645-33-5

EXPIRATION DATE: 11/30/2020

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 not 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 Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. The operator shall: (1) Change the oil and filter every 500 hours of operation, or annually, whichever comes first; (2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. 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
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 2520 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. 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
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. 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
14. 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-645-34-6

EXPIRATION DATE: 11/30/2020

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-645-36-6

EXPIRATION DATE: 11/30/2020

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] 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 JJJJJJ 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 JJJJJJ. 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] 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 JJJJJJ. 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 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] 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. 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 and 4352] 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-645-37-1

EXPIRATION DATE: 11/30/2020

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-645-38-1

EXPIRATION DATE: 11/30/2020

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-645-40-1

EXPIRATION DATE: 11/30/2020

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.

ATTACHMENT C

Detailed Facility List

Detailed Facility Report
For Facility=645
Sorted by Facility Name and Permit Number

DTE STOCKTON, LLC 2526 W WASHINGTON ST STOCKTON, CA 95203	FAC # STATUS: TELEPHONE:	N 645 A	TYPE: TOXIC ID:	TitleV 20283	EXPIRE ON: AREA: INSP. DATE:	11/30/2020 11 / 06/20
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-645-1-0	49.0 MW.	3020-08A G	1	12,254.00	12,254.00	D	49.0 MW COGENERATION PLANT
N-645-2-5	No applicable fee	999-99	1	0.00	0.00	D	COAL/COKE RECEIVING, HANDLING AND STORAGE CONSISTING OF: A TRUCK DUMP HOPPER CONTROLLED WITH WATER SPRAYS, A SILO FEED CONVEYOR VENTED TO A DUST COLLECTOR, AND A 2,500 TON STORAGE SILO VENTED TO A BAGHOUSE
N-645-3-5	No applicable fee	999-99	1	0.00	0.00	D	BOILER #A COAL/COKE FEED SYSTEM CONSISTING OF: A 100 TON DAY BIN; A 20 TON SURGE BIN AND MAIN ELEVATOR SYSTEM; A DRYER, DRYER ELEVATOR, AND CONVEYING SYSTEMS; AND A SPLITTER SCALPER SERVED BY THE SURGE BIN ALL VENTED TO BAGHOUSES OR THE BOILER
N-645-4-5	No applicable fee	999-99	1	0.00	0.00	D	BOILER #B COAL/COKE FEED SYSTEM CONSISTING OF: A 100 TON DAY BIN; A 20 TON SURGE BIN AND MAIN ELEVATOR SYSTEM; THE DRYER, DRYER ELEVATOR, AND CONVEYING SYSTEMS; AND A SPLITTER SCALPER SERVED BY THE SURGE BIN ALL VENTED TO BAGHOUSES OR THE BOILER
N-645-5-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE SURGE BIN #1 *** THIS PERMIT IS COMBINED WITH N-645-3-1 ***
N-645-6-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE SURGE BIN #2 *** THIS PERMIT IS COMBINED WITH N-645-4-1 ***
N-645-7-8	No applicable fee	999-99	1	0.00	0.00	D	COAL/COKE CONVEYING SYSTEM SERVED BY THE 2,500 TON MAIN STORAGE SILO AND SERVING THE DAY BINS FOR BOILERS #A & #B, THE SYSTEM INCLUDES: A CRUSHER BUILDING CONTAINING TWO CRUSHERS AND SCREENS, A COAL/COKE TDF TRUCK UNLOADING SYSTEM, AND ASSOCIATED CONVEYING EQUIPMENT VENTED TO A BAGHOUSE
N-645-8-8	Component - Biomass Power Plant	999-99	1	0.00	0.00	A	DRY SORBENT RECEIVING SILO #1 CONTROLLED WITH A FABRIC FILTER BAGHOUSE
N-645-9-8	Component - Biomass Power Plant	999-99	1	0.00	0.00	A	DRY SORBENT RECEIVING SILO #2 CONTROLLED WITH A FABRIC FILTER BAGHOUSE
N-645-10-4	No applicable fee	999-99	1	0.00	0.00	D	3.5 TON LIMESTONE/DAY TANK #1 CONTROLLED WITH A FABRIC FILTER BAGHOUSE
N-645-11-4	No applicable fee	999-99	1	0.00	0.00	D	3.5 TON LIMESTONE/DAY TANK #2 CONTROLLED WITH A FABRIC FILTER BAGHOUSE

Detailed Facility Report
For Facility=645
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-645-12-7	Component - Biomass Power Plant	999-99	1	0.00	0.00	A	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
N-645-13-0	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	TRUCK LOADOUT *** COMBINED WITH N-645-12-0 ***
N-645-14-13	27,000 kW	3020-08A F	1	9,803.00	9,803.00	D	MODIFICATION OF 280 MMBTU/HR CIRCULATING FLUIDIZED BED BOILER #A UTILIZING LIMESTONE INJECTION, A THERMAL DENOX SYSTEM, AND A BAGHOUSE NOTE: THIS BOILER SERVES AN ELECTRIC GENERATOR:
N-645-15-0	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	BAGHOUSE SERVING THE CIRCULATING FLUIDIZED BED BOILER #1 **** PERMIT COMBINED WITH N-645-14-0 ***
N-645-16-13	27,000 kW	3020-08A F	1	9,803.00	9,803.00	D	MODIFICATION OF 280 MMBTU/HR CIRCULATING FLUIDIZED BED BOILER #B UTILIZING LIMESTONE INJECTION, A THERMAL DENOX SYSTEM, AND A BAGHOUSE NOTE: THIS BOILER SERVES AN ELECTRIC GENERATOR:
N-645-17-0	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	BAGHOUSE SERVING THE CIRCULATING FLUIDIZED BED BOILER #2 **** PERMIT COMBINED WITH N-645-16-0 ***
N-645-18-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE SCALPER-SPLITTER SCREEN #1 *** THIS PERMIT IS COMBINED WITH N-645-3-1 ***
N-645-19-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE SCALPER-SPLITTER SCREEN #2 ** THIS PERMIT IS COMBINED WITH N-645-4-1 ***
N-645-20-4	No applicable fee	999-99	1	0.00	0.00	D	EMERGENCY COAL/COKE FEED HOPPER
N-645-21-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE RECEIVING TRUCK DUMP STATION *** COMBINED WITH N-645-2-1 ***
N-645-22-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE RECEIVING BELT FEEDER & SILO CONVEYOR *** COMBINED WITH N-645-2-1 ***
N-645-23-3	No applicable fee	999-99	1	0.00	0.00	D	20,000 TON EMERGENCY COAL/COKE STOCKPILE
N-645-24-8	79,000 kBtu/hr burner	3020-02 H	1	1,238.00	1,238.00	D	79 MMBTU/HR NEBRASKA MODEL #NS-E-57 AUXILIARY BOILER EQUIPPED WITH A LOW NOX BURNER AND FLUE GAS RECIRCULATION (FGR)
N-645-25-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE DRIER #1 *** THIS PERMIT HAS BEEN COMBINED WITH N-645-3-1 ***

Detailed Facility Report

For Facility=645

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-645-26-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE DRIER #2 *** THIS PERMIT IS COMBINED WITH N-645-4-1 ***
N-645-27-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE CRUSHER #1 *** THIS PERMIT IS COMBINED WITH N-645-7-1 ***
N-645-28-1	NO APPLICABLE FEE	999-99	1	0.00	0.00	D	COAL/COKE CRUSHER #2 *** THIS PERMIT IS COMBINED WITH N-645-7-1 ***
N-645-29-4	200 hp IC Engine	3020-10 C	1	290.00	290.00	D	200 BHP DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A COMPRESSOR
N-645-31-2	No applicable fee	999-99	1	0.00	0.00	D	FLY ASH REINJECTION SYSTEM VENTED THROUGH THE BOILER BAGHOUSE OR THE ASH SILO VENT FILTER
N-645-33-5	355 bhp IC Engine	3020-10 C	1	290.00	290.00	A	355 BHP CUMMINS MODEL #NT855-G2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-645-34-6	Component - Biomass Power Plant	999-99	1	0.00	0.00	A	43,000 GALLONS PER MINUTE COOLING TOWER WITH A HIGH EFFICIENCY DRIFT ELIMINATOR
N-645-35-4	106 hp electric motors	3020-01 D	1	379.00	379.00	D	RECLAIMED COAL/COKE RECEIVING AND CONVEYING OPERATION WITH A RECEIVING PIT SERVED BY DUST COLLECTORS AND AN EMERGENCY COAL/COKE STORAGE OPERATION NOTE: THIS PERMIT UNIT CONVEYS COAL/COKE TO THE MAIN 2,500 TON STORAGE SILO VIA N-645-2
N-645-36-6	54,000 kW	3020-08B G	1	12,254.00	12,254.00	A	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
N-645-37-1	Component	999-99	1	0.00	0.00	A	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
N-645-38-1	Component	999-99	1	0.00	0.00	A	BIOMASS FUEL HANDLING OPERATION WITH BIOMASS METERING BINS, RECLAIM CONVEYORS, AND OTHER ASSOCIATED CONVEYORS
N-645-40-1	Component	999-99	1	0.00	0.00	A	BIOMASS RECEIVING AND STORAGE OPERATION WITH UP TO THREE ACRES OF BIOMASS STORAGE PILES

Number of Facilities Reported: 1