



**OCT 31 2016**

Mr. David Kandolha  
Ampersand Chowchilla Biomass, LLC  
16457 Ave 24½  
Chowchilla, CA 93610

**Re: Notice of Final Action - Title V Permit Renewal  
District Facility # C-6923  
Project # C-1152268**

Dear Mr. Kandolha:

The District has issued the Final Renewed Title V Permit for Ampersand Chowchilla Biomass, LLC (see enclosure). The preliminary decision for this project was made on July 14, 2016. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

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

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

Sincerely,

  
Arnaud Marjollet  
Director of Permit Services

Enclosures

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

Sayed Sadredin  
Executive Director/Air Pollution Control Officer

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# SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Title V Permit Renewal Evaluation  
Ampersand Chowchilla Biomass, LLC  
C-6923

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# TITLE V PERMIT RENEWAL EVALUATION

## Biomass Power Generation

**Engineer:** Kamaljit Sran  
**Date:** October 21, 2016

**Facility Number:** C-6923  
**Facility Name:** Ampersand Chowchilla Biomass, LLC  
**Mailing Address:** 16457 Ave 24½  
Chowchilla, CA 93610

**Contact Name:** Mark DeCastro  
**Phone:** (559) 665-0807 x107

**Responsible Official:** David Kandohla  
**Title:** Plant Manager

**Project # :** C-1152268  
**Deemed Complete:** July 23, 2015

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## I. PROPOSAL

Ampersand Chowchilla Biomass, LLC was issued an initial Title V permit on April 9, 2012. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit has been reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

On July 14, 2016, the District issued public notice of its preliminary decision to issue the renewal Title V permit for Ampersand Chowchilla Biomass, LLC. In accordance with District Rule 2520, copies of the proposed permit and evaluation were forwarded to the facility, US EPA, and the Californian Air Resources Board. Copies were also made available for public review. The notice of District's preliminary decision was published in The Fresno Bee (newspaper of general circulation in Madera County) on July 14, 2016. During the review period that followed the notice of preliminary decision, the District received formal comments from Ampersand Chowchilla Biomass, LLC. District has addressed these comments (see attachment D) and therefore has decided to issue the initial Title V permit to Ampersand Chowchilla Biomass, LLC.

## II. FACILITY LOCATION

The facility is located at 16457 Ave 24½ in Chowchilla.

## III. EQUIPMENT LISTING

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

## IV. GENERAL PERMIT TEMPLATE USAGE

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

## V. SCOPE OF EPA AND PUBLIC REVIEW

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

## VI. FEDERALLY ENFORCEABLE REQUIREMENTS

### Rules Updated or Evaluated

- District Rule 2020, Exemptions (amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended February 18, 2016)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001 )
- District Rule 2410, Prevention of Significant Deterioration, (adopted June 16, 2011)
- 40 CFR Part 64, Compliance Assurance Monitoring Program

### Rules Rescinded

There have been no rules rescinded since the initial Title V permit was issued.

### Rules Not Updated

- District Rule 1070, Inspections (December 17, 1992)

- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (adopted December 17, 1992)
- District Rule 2031, Transfer of Permits (adopted December 17, 1992)
- District Rule 2040, Applications (adopted December 17, 1992)
- District Rule 2070, Standards for Granting Applications (adopted December 17, 1992)
- District Rule 2080, Conditional Approval (adopted December 17, 1992)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators, and Process Heaters (amended December 15, 2011)
- 40 CFR 60 Subpart Db, Standards of Performance for Industrial – Commercial - Institutional Steam Generating Units
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR Part 63, Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
- 40 CFR Part 68 - Risk Management Plans
- 40 CFR Part 72 - Acid Rain Program
- 40 CFR Part 82, Subpart F, Stratospheric Ozone

## 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 Adopted or updated:** None

**B. Rules Not Updated**

- District Rule 4102, Nuisance (amended December 17, 1992)
- District Rule 7012, Hexavalent Chromium - Cooling Towers (amended December 17, 1992)

## **VIII. PERMIT REQUIREMENTS**

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

### **1. District Rule 2020 - Exemptions**

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

### **2. District Rule 2201 - New and Modified Stationary Source Review Rule**

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

### **3. District Rule 2410 – Prevention of Significant Deterioration**

This District Rule has been newly adopted since facility's last Title V was last renewed. However the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any PSD permit actions have already been incorporated into current Title V permit.

### **4. District Rule 2520 – Federally Mandated Operating Permits**

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting

rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

#### 5. **40 CFR Part 64 – Compliance Assurance Monitoring**

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

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

##### a. Biomass Receiving, Storage, and Transfer Operation (C-6923-1-3)

The emissions unit has emissions limits for PM<sub>10</sub>. The unit may be subject to CAM for PM<sub>10</sub> since it has an add-on control in the form of a water spray and wet misting system. Assuming that the water spray and wet misting system have a control efficiency of 90%, the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year as shown below. Therefore, this emissions unit is not subject to CAM.

$$\text{Uncontrolled PM}_{10} = (425 \text{ lb-PM}_{10}/\text{yr}) / (1 - 0.90) = \underline{4,250 \text{ lb-PM}_{10}/\text{yr}}$$

##### b. Limestone Receiving, Storage, and Transfer Operation (C-6923-2-5)

The emissions unit has emissions limits for PM<sub>10</sub>. The unit may be subject to CAM for PM<sub>10</sub> since it has an add-on control in the form of a bin vent filter. Assuming that the bin vent filter has a control efficiency of 90%, the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year as shown below. Therefore, this emissions unit is not subject to CAM.

$$\text{Uncontrolled PM}_{10} = (1 \text{ lb-PM}_{10}/\text{yr}) / (1 - 0.90) = \underline{10 \text{ lb-PM}_{10}/\text{yr}}$$

##### c. 185 MMBtu/hr Biomass-Fired Bubbling Fluidized Bed Combustor (C-6923-3-10)

This emissions unit is subject to CAM for PM<sub>10</sub> since the unit has emissions limit for this pollutant and add-on controls in the form of a baghouse. Assuming that the baghouse has a control efficiency of 99%, the pre-control PM<sub>10</sub> potential to emit is calculated as shown below.

$$\begin{aligned}\text{Uncontrolled PM}_{10} &= 185 \text{ MMBtu/hr} \times 0.04 \text{ lb PM}_{10}/\text{MMBtu} \times 24 \text{ hr/day} \\ &\quad \times 337 \text{ days/year} \div (1 - 0.99) \\ &= 5,985,120 \text{ lbs PM}_{10}/\text{year}\end{aligned}$$

$$\begin{aligned}\text{Controlled PM}_{10} &= 185 \text{ MMBtu/hr} \times 0.04 \text{ lb PM}_{10}/\text{MMBtu} \times 24 \text{ hr/day} \\ &\quad \times 337 \text{ days/year} \\ &= 59,851 \text{ lbs PM}_{10}/\text{year}\end{aligned}$$

Since the controlled PM<sub>10</sub> emission rate is below the PM<sub>10</sub> Major Source threshold of 140,000 lb/year, daily monitoring is sufficient.

Based on 40 CFR 64.2(b)(1)(vi), this unit is not subject to CAM for its NO<sub>x</sub> emissions limit since the permit already specifies a continuous compliance determination method in the form of a continuous emissions monitor (CEM) for NO<sub>x</sub>.

Based on 40 CFR 64.2(b)(1)(vi), this unit is not subject to CAM for its SO<sub>x</sub> emissions limit since the permit already specifies a continuous compliance determination method in the form of a continuous emissions monitor (CEM) for SO<sub>x</sub>.

This permit unit has emissions limit for CO and VOC but does not have add-on controls for these pollutants. Therefore, this permit unit is not subject to CAM for CO and VOC.

40 CFR part 64.3 requires that the operator monitor one or more parameters that indicate the performance of the control device. The emissions unit is equipped with a continuous opacity monitor (COM) for PM<sub>10</sub>. The COM is required to be operated in accordance with the requirements of 40 CFR 60, Appendix B. However, this device is not regarded as equivalent to CEM for PM<sub>10</sub>, and so the unit is still subject to CAM requirements for PM<sub>10</sub>.

#### CAM Section 64.3 Monitoring Design Criteria

This section specifies the design criteria for the CAM system.

Paragraph (a) (*General criteria*) requires that the CAM system be designed to obtain data for one or more appropriate indicators of emission control system performance and requires the owner to establish appropriate ranges or designated conditions for the selected indicators such that operation within the ranges provides a reasonable assurance of ongoing compliance with emission limitations or standards for the anticipated range of operating conditions.

Condition #5 on draft PTO C-6923-3-10 satisfy the general design criteria of paragraph (a):



- The 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 and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR 64]

Paragraph (b) (*Performance criteria*) requires the owner or operator to establish and maintain the following:

- Specifications to ensure that representative data are collected
- Verification procedures for startup of new monitoring equipment
- Quality assurance and control practices to ensure continuing validity of data
- Data collection frequency and procedures

Conditions #7, 8, and 14 on draft PTO C-6923-3-10 satisfy the performance criteria of paragraph (b):

- The differential pressure gauge reading range shall be maintained between 0.5" and 8" water column. [District Rule 2201 and 40 CFR 64]
- Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201 and 40 CFR 64]
- The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 1080, 2201, and 4352 and 40 CFR 64]

Paragraph (c) (*Evaluation factors*) requires the owner or operator to take into account site specific factors in the design of the CAM system.

Paragraph (d) (*Special criteria for the use of continuous emission, opacity, or predictive monitoring systems*) requires the owner or operator to use a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS), or a predictive emission monitoring system (PEMS) to satisfy CAM requirements, provided that these monitoring systems are required pursuant to other authority under the Clean Air Act or state or local law. This subsection also stipulates the following:

The use of a COMS or PEMS that satisfies any of the following monitoring requirements shall be deemed to satisfy the general design criteria in paragraphs (a) and (b) of this section, provided that a COMS may be subject to the criteria for establishing indicator ranges under paragraph (a) of this section:

- (i) Section 51.214 and appendix P of 40 CFR 51;

- (ii) Section 60.13 and appendix B of 40 CFR 60;
- (iii) Section 63.8 and any applicable performance specifications required pursuant to the applicable subpart of 40 CFR 63;
- (iv) 40 CFR 75;
- (v) Subpart H and appendix IX of 40 CFR 266; or
- (vi) In the event that the monitoring system is not subject to any of the requirements listed above, comparable requirements and specifications established by the permitting authority.

Conditions #14 and 38 on the draft PTO ensure compliance with paragraph (d)(ii) and the General Design Criteria of paragraph (a).

- The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 1080 and 2201 and 40 CFR 60.48b(a) and 40 CFR 64]
- The owner or operator shall maintain records of opacity. [40 CFR 60.49b(f) and 40 CFR 64]

The owner or operator shall design the monitoring system subject to paragraph (d) to:

(i) Allow for reporting of exceedances (or excursions if applicable to a COMS used to assure compliance with a particulate matter standard), consistent with any period for reporting of exceedances in an underlying requirement. If an underlying requirement does not contain a provision for establishing an averaging period for the reporting of exceedances or excursions, the criteria used to develop an averaging period specified in the data collection procedures required under paragraph (b) of this section shall apply; and

(ii) Provide an indicator range consistent with paragraph (a) of this section for a COMS used to assure compliance with a particulate matter standard. If an opacity standard applies to the pollutant-specific emissions unit, such limit may be used as the appropriate indicator range unless the opacity limit fails to meet the criteria in paragraph (a) of this section after considering the type of control device and other site-specific factors applicable to the pollutant-specific emissions unit.

Conditions #39 and 40 on the draft PTO C-6923-3-10 provides for the reporting of exceedances as required by paragraph (d)(i):

- The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 60.49b(h) and 40 CFR 64]

- The owner of operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 60.49b(v) and 40 CFR 64]

#### Section 64.4 - Submittal Requirements

This section specifies submittal requirements for the owner or operator which ensure the CAM system will comply with the design criteria of §64.3. As shown in Section 64.3 above, the CAM proposal of Ampersand Chowchilla satisfies the design criteria of section 64.3.

#### Section 64.5 - Deadlines for Submittals

This section specifies required timing for submittals required under §64.4. *Large pollutant-specific emissions units* (those with controlled emissions exceeding major source thresholds) are required to make the submittals as a part of the initial Title V permit application where the application has either not been filed or has not been deemed complete. Where the initial Title V permit has been issued without implementation of 40 CFR 64, the owner or operator must make the required submittals as a part of a subsequent application for any significant permit revision. If the required information is not submitted by either of these deadlines, it must be submitted as a part of the application for the Title V permit renewal.

For other pollutant-specific emissions units, the required submittal deadline is the application for Title V permit renewal.

Ampersand Chowchilla's renewal Title V application will be accepted as satisfying the CAM submittal deadline for this facility.

#### Section 64.6 - Approval of monitoring

This section stipulates the following:

- A requirement that the permitting authority act to approve the proposed monitoring by confirming that the monitoring submitted complies with the requirements of §64.3.

- An allowance for the permitting authority to condition the approval based on collecting additional data on the indicators to be monitored, including performance or compliance testing.
- The minimum conditions that must be placed on the permit in the event that the proposed monitoring is approved by the permitting authority including a milestone schedule for completion of any conditional approval actions required by the owner or operator, such as installations, testing, or verification of operational status.
- Actions required by the permitting authority in the event that the proposed monitoring is not approved.

The proposed CAM conditions for Ampersand Chowchilla's baghouse serving the biomass boiler-power plant are similar to the example CAM conditions for a baghouse serving a biomass boiler-power plant contained in District policy FYI-89, Addressing CAM in Title V Permitting Actions. Therefore, the proposed CAM conditions comply with the design requirements of §64.3.

#### Section 64.7 - Operation of Approved Monitoring

This section requires the operator to:

- Commence the monitoring upon receipt of a Title V permit that includes such monitoring.
- Properly maintain the monitoring system.
- Operate the monitoring system continuously or at all times the emissions unit is operating except during repair or outage periods associated with monitor malfunction or with quality assurance and control activities.
- Upon detecting an excursion or exceedance, restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- A requirement for the owner or operator to document any need for improved monitoring based upon either an identification of a failure of the monitoring system to identify an excursion or exceedance or upon the results of compliance or performance testing that identifies a need to modify the monitoring.

Conditions #41 and 42 on draft PTO C-6923-3-10 will ensure compliance with §64.7:

- Upon detecting any excursion from the acceptable range of baghouse differential pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. If the daily average baghouse differential pressure reading is not within the

acceptable established range for two consecutive days, permittee shall notify the APCO of such exceedance within 96 hours. [40 CFR 64.7]

- If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.7 and 40 CFR 64.8]

#### Section 64.8 - Quality Improvement Plan (QIP) Requirements

This section stipulates that the Administrator or the permitting authority may require that the facility develop and implement a QIP in the event of a determination of a need for improved monitoring pursuant to §64.7. §64.8 also identifies the minimum elements required in the QIP, and requires that the facility implement the QIP as expeditiously as possible, with implementation not exceeding 180 days after the date that the need for implementation was identified unless the permitting authority is notified.

Condition #42 on PTO C-6923-3-1 will ensure compliance with §64.8:

- If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.7 and 40 CFR 64.8]

#### Section 64.9 Reporting and Recordkeeping Requirements

This section stipulates the minimum reporting and recordkeeping requirements for facilities subject to 40 CFR 64.

Condition #8 on draft PTO C-6923-3-10 address the requirements of this section:

- Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201 and 40 CFR 64]

#### Section 64.10 Savings Provisions

This section is a caveat stating that CAM provisions do not excuse an operator from complying with existing emission standards, testing, monitoring, reporting, or recordkeeping requirements. Neither are CAM provisions intended to restrict the District from requiring additional or stricter monitoring or limit the District's ability to take enforcement action. This section does not impose additional requirements.

- d. 12,500 GPM Mechanical/Induced Draft Cooling Tower (C-6923-4-2)

This emissions unit is not subject to CAM because it does not have add-on controls.

e. Fly Ash Handling Storage and Load Out Operation (C-6923-5-7)

The emissions unit has emissions limits for PM<sub>10</sub>. The unit may be subject to CAM for PM<sub>10</sub> since it has an add-on control in the form of a baghouse. Assuming that the baghouse has a control efficiency of 99%, the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year as shown below. Therefore, this emissions unit is not subject to CAM.

$$\text{Uncontrolled PM}_{10} = (13 \text{ lb-PM}_{10}/\text{yr}) / (1 - 0.99) = \underline{1,300 \text{ lb-PM}_{10}/\text{yr}}$$

## IX. PERMIT SHIELD

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

### A. Requirements Addressed by Model General Permit Templates

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

### B. Requirements not Addressed by Model General Permit Templates

The applicant is not requesting any permit shields.

### C. Obsolete Permit Shields from Existing Permit Requirements

The original permits did not contain any obsolete permit shields.

## X. PERMIT CONDITIONS

The draft renewed Title V operating permit is included as Attachment A.

## XI. ATTACHMENTS

- A. Renewed Title V Operating Permit
- B. Expired Title V Operating Permit
- C. Detailed Facility Report
- D. Facility Comments/District Responses

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# ATTACHMENT A

## Renewed Title V Operating Permit

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Facility # C-6923  
AMPERSAND CHOWCHILLA BIOMASS LLC  
16457 AVENUE 24-1/2  
CHOWCHILLA, CA 93610

## Notice of Permit Issuance

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

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

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

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

Seyed Sadredin  
Executive Director/Air Pollution Control Officer

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

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

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





# Permit to Operate

**FACILITY:** C-6923

**EXPIRATION DATE:** 04/30/2021

**LEGAL OWNER OR OPERATOR:**

AMPERSAND CHOWCHILLA BIOMASS LLC

**MAILING ADDRESS:**

16457 AVENUE 24-1/2  
CHOWCHILLA, CA 93610

**FACILITY LOCATION:**

16457 AVENUE 24-1/2  
CHOWCHILLA, CA

**FACILITY DESCRIPTION:**

BIOMASS PLANT

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

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

**Seyed Sadredin**  
Executive Director / APCO

**Arnaud Marjollet**  
Director of Permit Services

# San Joaquin Valley Air Pollution Control District

FACILITY: C-6923-0-1

EXPIRATION DATE: 04/30/2021

## FACILITY-WIDE REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. 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] Federally Enforceable Through Title V Permit
5. 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] Federally Enforceable Through Title V Permit
6. 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
7. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
8. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
9. 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
10. 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
11. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: AMPERSAND CHOWCHILLA BIOMASS LLC  
Location: 16457 AVENUE 24-1/2, CHOWCHILLA, CA  
C-6923-0-1, Oct 24 2016 2:31PM - SRAJK

12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

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

25. 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] Federally Enforceable Through Title V Permit
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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
32. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8021 and 8011] Federally Enforceable Through Title V Permit
33. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8031 and 8011] Federally Enforceable Through Title V Permit
34. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8041 and 8011] Federally Enforceable Through Title V Permit
35. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8051 and 8011] Federally Enforceable Through Title V Permit
36. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8061 and 8011] Federally Enforceable Through Title V Permit
37. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8071 and 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

38. 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
39. 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
40. 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
41. 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
42. 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
43. On April 30, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 1 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
44. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-6923-1-3

**EXPIRATION DATE:** 04/30/2021

**EQUIPMENT DESCRIPTION:**

BIOMASS RECEIVING, STORAGE, TRANSFER, AND SIZING OPERATION WITH OPTIONAL TRUCK TIPPER SERVED BY WATER SPRAY SYSTEM, DISC SCREEN, FUEL SIZER SERVED BY A WET MISTING SYSTEM AND FUEL STORAGE AREA WITH ENCLOSED CONVEYORS

## PERMIT UNIT REQUIREMENTS

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1. The maximum amount of biomass received at the facility shall not exceed any of the following limits: 1250 tons/day, or 155,136 tons/yr. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
2. PM10 emissions rate from the truck tipping/unloading operation shall not exceed 0.0001 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
3. PM10 emissions rate from front-end loader to fuel yard shall not exceed 0.0011 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions rate from front-end loader to N/S drag chain reclaim conveyor shall not exceed 0.0011 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions rate from fuel yard to N/S drag chain reclaim conveyor shall not exceed 0.0011 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
6. PM10 emissions rate from each enclosed conveyor shall not exceed 0.000046 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
7. PM10 emissions rate from each uncontrolled conveyor shall not exceed 0.0011 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
8. PM10 emissions rate from the disc screen shall not exceed 0.00074 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM10 emissions rate from the fuel sizer shall not exceed 0.0022 lb/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum net charge rate of biomass to the fluidized bed combustor through the receiving, storage, transfer, & sizing operation shall not exceed any of the following limits: 449 tons/day, or 155,136 tons/yr. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
11. Records of daily, and annual amount of biomass received (in tons) at the facility shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rules 1070, 2201, and 4102] Federally Enforceable Through Title V Permit
12. Records of daily, and annual amount of biomass charged to the fluidized bed combustor through the receiving, storage, transfer, & sizing operation shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rules 1070, 2201, and 4102] 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:** C-6923-2-5

**EXPIRATION DATE:** 04/30/2021

**EQUIPMENT DESCRIPTION:**

LIMESTONE/SODIUM BICARBONATE RECEIVING, STORAGE, AND TRANSFER OPERATION WITH AN ENCLOSED STORAGE SILO SERVED BY A BIN VENT FILTER, ENCLOSED TRUCK UNLOADING SYSTEM AND ENCLOSED TRANSFER SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The 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 and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The differential pressure gauge reading range shall be maintained between 0.5" and 8" water column. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
9. There shall be no visible emissions from the transfer operation, for a period or periods aggregating more than three minutes in any one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
10. Visible emissions from the bin vent filter serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
11. The maximum throughput of material loaded into the storage silo shall not exceed either of the following limits: 44 tons/day or 3200 tons/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. PM10 emissions rate from the silo loading operation shall not exceed 0.00034 lb/ton material. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Records of daily and annual amounts (in tons) of material processed at the receiving and storage operation shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rules 1070 and 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:** C-6923-3-10

**EXPIRATION DATE:** 04/30/2021

**EQUIPMENT DESCRIPTION:**

185 MMBTU/HR ENERGY PRODUCTS OF IDAHO (EPI) BIOMASS-FIRED FLUIDIZED BUBBLING BED COMBUSTOR WITH ONE 10 MMBTU/HR NATURAL GAS-FIRED PREHEAT BURNER POWERING A 12.5 MW STEAM TURBINE GENERATOR, SERVED BY A SELECTIVE NON-CATALYTIC REDUCTION (SNCR) SYSTEM WITH AN AUTOMATED AMMONIA INJECTION SYSTEM, A LIMESTONE/SODIUM BICARBONATE INJECTION SYSTEM, A MULTICLONE, AND A PULSE JET BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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1. Operating schedule of the main combustor shall not exceed 337 days per year. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The 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 and shall be located in an easily accessible location. [District Rule 2201, 40 CFR 63.11205(a), and 40 CFR 64] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The differential pressure gauge reading range shall be maintained between 0.5" and 8" water column. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
8. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
9. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The applicant shall install and maintain an operational ammonia volume flow-rate indicator for the selective non-catalytic reduction (SNCR) ammonia injection system. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The applicant shall install, maintain, and operate an automated ammonia injection system in the selective non-catalytic reduction (SNCR) system. The automated mode may be overridden by the facility operator as necessary to maintain compliance with the emission limits listed within this permit. [District Rule 1080] Federally Enforceable Through Title V Permit
12. The applicant shall install, maintain, and operate a stack gas flow monitoring system. [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.



13. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack gas NO<sub>x</sub>, SO<sub>x</sub>, CO, and O<sub>2</sub> concentration and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, 4352, and 40 CFR 64] Federally Enforceable Through Title V Permit
14. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 1080 and 2201 and 40 CFR 60.48b(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
15. The facility 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
16. 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
17. 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
18. Audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit
19. 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 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
20. The CEM system shall be operated and maintained in accordance with the operation and maintenance procedures identified in the continuous emission monitoring system quality assurance/quality control plan. [District Rule 1080] Federally Enforceable Through Title V Permit
21. The preheat burner shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
22. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 96 hours. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 192 hours. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 12 hours. [District Rule 4352] Federally Enforceable Through Title V Permit
23. Emissions from the fluidized bed combustor unit, except during periods of startup and shutdown, shall not exceed any of the following limits: NO<sub>x</sub> - 14.8 lb/hr or 0.08 lb/MMBtu, SO<sub>x</sub> - 7.40 lb/hr or 0.04 lb/MMBtu, PM<sub>10</sub> - 7.40 lb/hr or 0.04 lb/MMBtu, CO - 10.55 lb/hr or 72 ppmv @ 3% O<sub>2</sub> (equivalent to 0.057 lb/MMBtu), or VOC - 0.93 lb/hr or 0.005 lb/MMBtu. NO<sub>x</sub> (as NO<sub>2</sub>) and CO emission limits are based on 24 hour rolling averages. SO<sub>x</sub> emission limits are based on 3 hour rolling averages. [District Rules 2201, 4352, and 4801] Federally Enforceable Through Title V Permit
24. The ammonia (NH<sub>3</sub>) emissions shall not exceed 85 ppmv @ 3% O<sub>2</sub> (equivalent to 0.041 lb/MMBtu) over a 24 hour rolling average. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
25. Emissions from the preheat burner shall not exceed any of the following limits: NO<sub>x</sub> - 0.1 lb/MMBtu, SO<sub>x</sub> - 0.00285 lb/MMBtu, PM<sub>10</sub> - 0.0076 lb/MMBtu, CO - 0.084 lb/MMBtu, or VOC - 0.0055 lb/MMBtu. [District Rules 2201 and 4801] 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.

26. A non-résettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the preheat burner shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Maximum natural gas fuel usage by the preheat burner shall not exceed 120,000 scf/day or 1,200,000 scf/year. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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<sub>x</sub>, CO, and O<sub>2</sub> 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 Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. Source testing to measure the NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, VOC, and NH<sub>3</sub> emission rates (lb/hr, lb/MMBtu and/or ppmvd @ 3% O<sub>2</sub>) for the fluidized bubbling bed combustor shall be conducted at least once every twelve months. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
30. All emission measurements shall be made with the unit operating at condition representative of normal operations. No compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
31. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. 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
32. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, SO<sub>x</sub> - EPA Method 6 or ARB Method 100, PM<sub>10</sub> - EPA Method 5 (front half and back half) or 201 and 202a, CO (ppmv) - EPA Method 10 or ARB Method 100, CO<sub>2</sub> - EPA Method 3 or ARB Method 100, VOC - EPA Method 18 or 25 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, ammonia - BAAQMD ST-1B, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Fuel Heating Value - ASTM Method D2015-85 or E711. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001, and 4352] Federally Enforceable Through Title V Permit
33. No owner or operator of an affected facility that combusts wood, or wood with other fuels, except coal, shall cause to be discharged from that affected facility any gases that contain particulate matter in excess of the following emission limits: (1) 43 ng/J (0.10 lb/million Btu) heat input if the affected facility has an annual capacity factor greater than 30 percent (0.30) for wood. (2) 86 ng/J (0.20 lb/million Btu) heat input if (i) The affected facility has an annual capacity factor of 30 percent (0.30) or less for wood, (ii) Is subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor of 30 percent (0.30) or less for wood, and (iii) Has a maximum heat input capacity of 73 MW (250 million Btu/hour) or less. [40 CFR 60.43b(c)] 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.

34. No owner or operator of an affected facility that combusts municipal-type solid waste or mixtures of municipal-type solid waste with other fuels, shall cause to be discharged into the atmosphere from that affected facility any gases that contain particulate matter in excess of the following emission limits: (1) 43 ng/J (0.10 lb/million Btu) heat input, (i) If the affected facility combusts only municipal-type solid waste, or (ii) If the affected facility combusts municipal-type solid waste and other fuels and has an annual capacity factor for the other fuels of 10 percent (0.10) or less. (2) 86 ng/J (0.20 lb/million Btu) heat input if the affected facility combusts municipal-type solid waste or municipal-type solid waste and other fuels; and (i) Has an annual capacity factor for municipal-type solid waste and other fuels of 30 percent (0.30) or less, (ii) Has a maximum heat input capacity of 73 MW (250 million Btu/hour) or less, (iii) Has a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor of 30 percent (0.30) for municipal-type solid waste, or municipal-type solid waste and other fuels, and (iv) Construction of the affected facility commenced after June 19, 1984, but before November 25, 1986. [40 CFR 60.43b(d)] Federally Enforceable Through Title V Permit
35. No owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)] Federally Enforceable Through Title V Permit
36. The particulate matter emission standards and opacity limits under 40 CFR 60.43b apply at all times except during periods of startup, shutdown, or malfunction. [40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
37. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
38. The owner or operator shall maintain records of opacity. [40 CFR 60.49b(f) and 40 CFR 64] Federally Enforceable Through Title V Permit
39. The owner or operator shall submit reports of excess emissions and monitoring system downtime for opacity, in accordance with 40 CFR 60.7(c) and (d), on a semi-annual basis. For the purpose of reports required under 40 CFR Part 60.7(c), periods of excess emission and monitor downtime that shall be reported are defined in 40 CFR 60.49b(h). All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR 60.49b(h), 60.49b(w) and 40 CFR 64] Federally Enforceable Through Title V Permit
40. The owner or operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 60.49b(v) and 40 CFR 64] Federally Enforceable Through Title V Permit
41. Upon detecting any excursion from the acceptable range of baghouse differential pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. If the daily average baghouse differential pressure reading is not within the acceptable established range for two consecutive days, permittee shall notify the APCO of such exceedance within 96 hours. [40 CFR 64.7] Federally Enforceable Through Title V Permit
42. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR 64.7 and 40 CFR 64.8] 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.

43. 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 (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventive measures adopted; applicable time and date of each period during a CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; a negative declaration when no excess emissions occurred, and reports on opacity monitors giving the number of three minute periods during which the average opacity exceeded the standard for each hour of operation. The averaged may be obtained by integration over the averaging period or by arithmetically averaging a minimum of four equally spaced instantaneous opacity measurements per minute. Any time exempted shall be considered before determining the excess averages of opacity. [District Rule 1080] Federally Enforceable Through Title V Permit
44. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit
45. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used (hourly and annually) and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
46. The owner/operator shall maintain an operating log that includes the number of days of operation of the fluidized bed combustor and daily and annual natural gas usage of the preheat burner. [District Rule 1070] Federally Enforceable Through Title V Permit
47. By the applicable due date specified in 40 CFR 63, Subpart JJJJJ and every two years thereafter, permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b). Permittee shall submit a signed statement of the Notification of Compliance Status report that a tune-up of the boiler was completed. [40 CFR 63.11214(b)] Federally Enforceable Through Title V Permit
48. By the applicable due date specified in 40 CFR 63, Subpart JJJJJ, the permittee shall conduct a one-time energy assessment as described in 40 CFR 63, Subpart JJJJJ, Table 2. Permittee shall submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed, and shall submit the energy assessment report upon request. [40 CFR 63.11214(c)] Federally Enforceable Through Title V Permit
49. Permittee shall submit Notification of Compliance Status reports by the applicable due date specified in 40 CFR 63, Subpart JJJJJ. [40 CFR 63.11225(a)(4)] Federally Enforceable Through Title V Permit
50. All records shall be maintained for a period of at least five years and made available for District inspection upon request. [District Rules 2520 and 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: C-6923-4-2

EXPIRATION DATE: 04/30/2021

**EQUIPMENT DESCRIPTION:**

14,500 GALLON PER MINUTE MECHANICAL/INDUCED DRAFT COOLING TOWER WITH 2 CELLS SERVED BY DRIFT ELIMINATORS

## PERMIT UNIT REQUIREMENTS

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1. 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
2. Operating schedule shall not exceed 337 days per year. [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. Drift eliminator drift rate shall not exceed 0.005%. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emission rate for the cooling tower shall not exceed 8.7 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the PM10 daily emission limit shall demonstrated as follows:  $PM10 \text{ lb/day} = \text{water recirculation rate} \times \text{total dissolved solids concentration in the blowdown water} \times \text{design drift rate}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with PM10 emission limit shall be determined by blowdown water sample analysis by independent laboratory within 60 days of initial operation and quarterly thereafter. [District Rule 1081] 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:** C-6923-5-7

**EXPIRATION DATE:** 04/30/2021

**EQUIPMENT DESCRIPTION:**

FLY ASH HANDLING, STORAGE AND LOAD OUT OPERATION CONSISTING OF FLY ASH SURGE BIN, 18 ROTARY FEEDERS, 9 SCREW CONVEYORS, 2 DRAG CHAIN CONVEYORS, AND ONE WET CONDITIONING SCREW CONVEYOR ALL TOTALLY ENCLOSED

## PERMIT UNIT REQUIREMENTS

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1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. There shall be no visible emissions from the fly ash transfer operation, for a period or periods aggregating more than three minutes in any one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
3. PM10 emissions rate from each conveyor shall not exceed 0.000046 lb/ton fly ash. [District Rule 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions rate from the fly ash surge bin loading operation shall not exceed 0.000046 lb/ton fly ash. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum throughput of fly ash in the fly ash surge bin, as measured by the load out operation, shall not exceed either of the following limits: 96 tons/day or 18,000 tons/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily records of the amount of fly ash generated (in tons) at the facility and amount of fly ash processed (in tons) by the load out operation shall be maintained, retained on-site for a period of at least five (5) years, and made available for District inspection upon request. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Expired Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: C-6923-0-0

EXPIRATION DATE: 04/30/2016

## FACILITY-WIDE REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. No 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
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. 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] Federally Enforceable Through Title V Permit
5. 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] Federally Enforceable Through Title V Permit
6. 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
7. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
8. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
9. 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
10. 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
11. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: AMPERSAND CHOWCHILLA BIOMASS LLC  
Location: 16457 AVENUE 24-1/2, CHOWCHILLA, CA  
C-6923-0-0: Jun 28 2016 3:46PM - SRANK



12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. 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] Federally Enforceable Through Title V Permit
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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
32. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8021 and 8011] Federally Enforceable Through Title V Permit
33. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8031 and 8011] Federally Enforceable Through Title V Permit
34. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8041 and 8011] Federally Enforceable Through Title V Permit
35. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8051 and 8011] Federally Enforceable Through Title V Permit
36. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8061 and 8011] Federally Enforceable Through Title V Permit
37. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8071 and 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

38. 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
39. 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
40. 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
41. 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
42. 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
43. On April 30, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 1 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
44. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit
45. The facility gasoline throughput shall not exceed 10,000 gallons per month. The permittee shall maintain monthly gasoline throughput records which shall be retained on-site for a period of at least five years and be made available for District inspection upon request. [40 CFR 63.11111] Federally Enforceable Through Title V Permit
46. The permittee shall operate and maintain the gasoline dispensing facility, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11115] Federally Enforceable Through Title V Permit
47. The permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: (1) Minimize gasoline spills; (2) Clean up spills as expeditiously as practicable; (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. The permittee is not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but must have records available within 24 hours of a request by the Administrator to document the gasoline throughput. [40 CFR 63.11116] 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.

48. Each owner or operator shall keep records of the occurrence and duration of each malfunction of operation ( i.e., process equipment) or the air pollution control and monitoring equipment and records of actions taken during periods of malfunction to minimize emissions in accordance with §63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11125] 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:** C-6923-1-2

**EXPIRATION DATE:** 04/30/2016

**EQUIPMENT DESCRIPTION:**

BIOMASS RECEIVING, STORAGE, TRANSFER, AND SIZING OPERATION WITH OPTIONAL TRUCK TIPPER SERVED BY WATER SPRAY SYSTEM, DISC SCREEN, FUEL SIZER SERVED BY A WET MISTING SYSTEM AND FUEL STORAGE AREA WITH ENCLOSED CONVEYORS

## PERMIT UNIT REQUIREMENTS

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1. The maximum amount of biomass received at the facility shall not exceed any of the following limits: 1250 tons/day, or 155,136 tons/yr. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
2. PM10 emissions rate from the truck tipping/unloading operation shall not exceed 0.0001 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
3. PM10 emissions rate from front-end loader to fuel yard shall not exceed 0.0011 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions rate from front-end loader to N/S drag chain reclaim conveyor shall not exceed 0.0011 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions rate from fuel yard to N/S drag chain reclaim conveyor shall not exceed 0.0011 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
6. PM10 emissions rate from each enclosed conveyor shall not exceed 0.000046 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
7. PM10 emissions rate from each uncontrolled conveyor shall not exceed 0.0011 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
8. PM10 emissions rate from the disc screen shall not exceed 0.00074 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM10 emissions rate from the fuel sizer shall not exceed 0.0022 lb PM10/ton biomass. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum net charge rate of biomass to the fluidized bed combustor through the receiving, storage, transfer, & sizing operation shall not exceed any of the following limits: 449 tons/day, or 155,136 tons/yr. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
11. Records of daily, and annual amount of biomass received (in tons) at the facility shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rules 1070, 2201, and 4102] Federally Enforceable Through Title V Permit
12. Records of daily, and annual amount of biomass charged to the fluidized bed combustor through the receiving, storage, transfer, & sizing operation shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rules 1070, 2201, and 4102] 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: C-6923-2-4

EXPIRATION DATE: 04/30/2016

## EQUIPMENT DESCRIPTION:

LIMESTONE/SODIUM BICARBONATE RECEIVING, STORAGE, AND TRANSFER OPERATION WITH AN ENCLOSED STORAGE SILO SERVED BY A BIN VENT FILTER, ENCLOSED TRUCK UNLOADING SYSTEM AND ENCLOSED TRANSFER SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The 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 and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The differential pressure gauge reading range shall be maintained between 0.5" and 8" water column. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
9. There shall be no visible emissions from the transfer operation, for a period or periods aggregating more than three minutes in any one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
10. Visible emissions from the bin vent filter serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
11. The maximum throughput of material loaded into the storage silo shall not exceed either of the following limits: 44 tons/day or 3200 tons/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. PM10 emissions rate from the silo loading operation shall not exceed 0.00034 lb PM10/ton material. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Records of daily and annual amounts (in tons) of material processed at the receiving and storage operation shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rules 1070 and 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: C-6923-3-7

EXPIRATION DATE: 04/30/2016

## EQUIPMENT DESCRIPTION:

185 MMBTU/HR ENERGY PRODUCTS OF IDAHO (EPI) BIOMASS-FIRED FLUIDIZED BUBBLING BED COMBUSTOR WITH ONE 10 MMBTU/HR NATURAL GAS-FIRED PREHEAT BURNER POWERING A 12.5 MW STEAM TURBINE GENERATOR, SERVED BY A SELECTIVE NON-CATALYTIC REDUCTION (SNCR) SYSTEM WITH AN AUTOMATED AMMONIA INJECTION SYSTEM, A LIMESTONE/SODIUM BICARBONATE INJECTION SYSTEM, A MULTICLONE, AND A PULSE JET BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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1. Operating schedule of the main combustor shall not exceed 337 days per year. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The 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 and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR 63.11205(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The differential pressure gauge reading range shall be maintained between 0.5" and 8" water column. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
8. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
9. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The applicant shall install and maintain an operational ammonia volume flow-rate indicator for the selective non-catalytic reduction (SNCR) ammonia injection system. [District Rule 2201] Federally Enforceable Through Title V Permit
11. No later than 30 days following restart of the facility, the applicant shall install, maintain, and operate an automated ammonia injection system in the selective non-catalytic reduction (SNCR) system. The automated mode may be overridden by the facility operator as necessary to maintain compliance with the emission limits listed within this permit. [District Rule 1080 and US EPA and SJVUAPCD Consent Decree Case No. 1:11-CV-00242-LJO-DLB, Section V.13.b, issued February 14, 2011] 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. No later than 90 days following restart of the facility, the applicant shall install, maintain, and operate a stack gas flow monitoring system. [District Rule 1080 and US EPA and SJVUAPCD Consent Decree Case No. 1:11-CV-00242-LJO-DLB, Section V.13.a, issued February 14, 2011] Federally Enforceable Through Title V Permit
13. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack gas NO<sub>x</sub>, SO<sub>x</sub>, CO, and O<sub>2</sub> concentration and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, 4352, and 40 CFR 64] Federally Enforceable Through Title V Permit
14. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 1080 and 2201 and 40 CFR 60.48b(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
15. The facility 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
16. 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
17. 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
18. Audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit
19. 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 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
20. Within 90 days following restart of the facility, the CEM system shall be operated and maintained in accordance with the operation and maintenance procedures identified in the continuous emission monitoring system quality assurance/quality control plan. [District Rule 1080 and US EPA and SJVUAPCD Consent Decree Case No. 1:11-CV-00242-LJO-DLB, Section V.13.c, issued February 14, 2011] Federally Enforceable Through Title V Permit
21. The preheat burner shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
22. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 96 hours. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 192 hours. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 12 hours. [District Rule 4352] Federally Enforceable Through Title V Permit
23. Emissions from the fluidized bed combustor unit, except during periods of startup and shutdown, shall not exceed any of the following limits: NO<sub>x</sub> - 14.8 lb/hr or 0.08 lb/MMBtu, SO<sub>x</sub> - 7.40 lb/hr or 0.04 lb/MMBtu, PM10 - 7.40 lb/hr or 0.04 lb/MMBtu, CO - 10.55 lb/hr or 72 ppmv @ 3% O<sub>2</sub> (equivalent to 0.057 lb/MMBtu), or VOC - 0.93 lb/hr or 0.005 lb/MMBtu. NO<sub>x</sub> (as NO<sub>2</sub>) and CO emission limits are based on 24 hour rolling averages. SO<sub>x</sub> emission limits are based on 3 hour rolling averages. [District Rules 2201, 4352, and 4801] Federally Enforceable Through Title V Permit
24. The ammonia (NH<sub>3</sub>) emissions shall not exceed 85 ppmv @ 3% O<sub>2</sub> (equivalent to 0.041 lb/MMBtu) over a 24 hour rolling average. [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.



25. Emissions from the preheat burner shall not exceed any of the following limits: NO<sub>x</sub> - 0.1 lb/MMBtu, SO<sub>x</sub> - 0.00285 lb/MMBtu, PM<sub>10</sub> - 0.0076 lb/MMBtu, CO - 0.084 lb/MMBtu, or VOC - 0.0055 lb/MMBtu. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
26. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the preheat burner shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Maximum natural gas fuel usage by the preheat burner shall not exceed 120,000 scf/day or 1,200,000 scf/year. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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<sub>x</sub>, CO, and O<sub>2</sub> 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 Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. Source testing to measure the NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, VOC, and NH<sub>3</sub> emission rates (lb/hr, lb/MMBtu and/or ppmvd @ 3% O<sub>2</sub>) for the fluidized bubbling bed combustor shall be conducted at least once every twelve months. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
30. All emission measurements shall be made with the unit operating at condition representative of normal operations. No compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
31. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. 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
32. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, SO<sub>x</sub> - EPA Method 6 or ARB Method 100, PM<sub>10</sub> - EPA Method 5 (front half and back half) or 201 and 202a, CO (ppmv) - EPA Method 10 or ARB Method 100, CO<sub>2</sub> - EPA Method 3 or ARB Method 100, VOC - EPA Method 18 or 25 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, ammonia - BAAQMD ST-1B, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Fuel Heating Value - ASTM Method D2015-85 or E711. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001, and 4352] Federally Enforceable Through Title V Permit
33. No owner or operator of an affected facility that combusts wood, or wood with other fuels, except coal, shall cause to be discharged from that affected facility any gases that contain particulate matter in excess of the following emission limits: (1) 43 ng/J (0.10 lb/million Btu) heat input if the affected facility has an annual capacity factor greater than 30 percent (0.30) for wood. (2) 86 ng/J (0.20 lb/million Btu) heat input if (i) The affected facility has an annual capacity factor of 30 percent (0.30) or less for wood, (ii) Is subject to a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor of 30 percent (0.30) or less for wood, and (iii) Has a maximum heat input capacity of 73 MW (250 million Btu/hour) or less. [40 CFR 60.43b(c)] 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.

34. No owner or operator of an affected facility that combusts municipal-type solid waste or mixtures of municipal-type solid waste with other fuels, shall cause to be discharged into the atmosphere from that affected facility any gases that contain particulate matter in excess of the following emission limits: (1) 43 ng/J (0.10 lb/million Btu) heat input, (i) If the affected facility combusts only municipal-type solid waste, or (ii) If the affected facility combusts municipal-type solid waste and other fuels and has an annual capacity factor for the other fuels of 10 percent (0.10) or less. (2) 86 ng/J (0.20 lb/million Btu) heat input if the affected facility combusts municipal-type solid waste or municipal-type solid waste and other fuels; and (i) Has an annual capacity factor for municipal-type solid waste and other fuels of 30 percent (0.30) or less, (ii) Has a maximum heat input capacity of 73 MW (250 million Btu/hour) or less, (iii) Has a federally enforceable requirement limiting operation of the affected facility to an annual capacity factor of 30 percent (0.30) for municipal-type solid waste, or municipal-type solid waste and other fuels, and (iv) Construction of the affected facility commenced after June 19, 1984, but before November 25, 1986. [40 CFR 60.43b(d)] Federally Enforceable Through Title V Permit
35. No owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)] Federally Enforceable Through Title V Permit
36. The particulate matter emission standards and opacity limits under 40 CFR 60.43b apply at all times except during periods of startup, shutdown, or malfunction. [40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
37. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel combusted for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
38. The owner or operator shall maintain records of opacity. [40 CFR 60.49b(f) and 40 CFR 64] Federally Enforceable Through Title V Permit
39. The owner or operator shall submit reports of excess emissions and monitoring system downtime for opacity, in accordance with 40 CFR 60.7(c) and (d), on a semi-annual basis. For the purpose of reports required under 40 CFR Part 60.7(c), periods of excess emission and monitor downtime that shall be reported are defined in 40 CFR 60.49b(h). All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR 60.49b(h), 60.49b(w) and 40 CFR 64] Federally Enforceable Through Title V Permit
40. The owner of operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 60.49b(v) and 40 CFR 64] Federally Enforceable Through Title V Permit
41. Upon detecting any excursion from the acceptable range of baghouse differential pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. If the daily average baghouse differential pressure reading is not within the acceptable established range for two consecutive days, permittee shall notify the APCO of such exceedance within 96 hours. [40 CFR 64.7] Federally Enforceable Through Title V Permit
42. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR 64.7 and 40 CFR 64.8] 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.

43. 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 (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventive measures adopted; applicable time and date of each period during a CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; a negative declaration when no excess emissions occurred, and reports on opacity monitors giving the number of three minute periods during which the average opacity exceeded the standard for each hour of operation. The averaged may be obtained by integration over the averaging period or by arithmetically averaging a minimum of four equally spaced instantaneous opacity measurements per minute. Any time exempted shall be considered before determining the excess averages of opacity. [District Rule 1080] Federally Enforceable Through Title V Permit
44. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit
45. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used (hourly and annually) and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
46. The owner/operator shall maintain an operating log that includes the number of days of operation of the fluidized bed combustor and daily and annual natural gas usage of the preheat burner. [District Rule 1070] Federally Enforceable Through Title V Permit
47. By the applicable due date specified in 40 CFR 63, Subpart JJJJJ and every two years thereafter, permittee shall conduct a performance tune-up of the boiler in accordance with 40 CFR 63.11223(b). Permittee shall submit a signed statement of the Notification of Compliance Status report that a tune-up of the boiler was completed. [40 CFR 63.11214(b)] Federally Enforceable Through Title V Permit
48. By the applicable due date specified in 40 CFR 63, Subpart JJJJJ, the permittee shall conduct a one-time energy assessment as described in 40 CFR 63, Subpart JJJJJ, Table 2. Permittee shall submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed, and shall submit the energy assessment report upon request. [40 CFR 63.11214(c)] Federally Enforceable Through Title V Permit
49. Permittee shall submit Notification of Compliance Status reports by the applicable due date specified in 40 CFR 63, Subpart JJJJJ. [40 CFR 63.11225(a)(4)] Federally Enforceable Through Title V Permit
50. All records shall be maintained for a period of at least five years and 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: C-6923-4-1

EXPIRATION DATE: 04/30/2016

**EQUIPMENT DESCRIPTION:**

14,500 GALLON PER MINUTE MECHANICAL/INDUCED DRAFT COOLING TOWER WITH 2 CELLS SERVED BY DRIFT ELIMINATORS

## PERMIT UNIT REQUIREMENTS

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1. 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 NSR Rule] Federally Enforceable Through Title V Permit
2. Operating schedule shall not exceed 337 days per year. [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. Drift eliminator drift rate shall not exceed 0.005%. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emission rate for the cooling tower shall not exceed 8.7 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the PM10 daily emission limit shall demonstrated as follows:  $PM10 \text{ lb/day} = \text{water recirculation rate} \times \text{total dissolved solids concentration in the blowdown water} \times \text{design drift rate}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with PM10 emission limit shall be determined by blowdown water sample analysis by independent laboratory within 60 days of initial operation and quarterly thereafter. [District Rule 1081] 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: C-6923-5-6

EXPIRATION DATE: 04/30/2016

**EQUIPMENT DESCRIPTION:**

FLY ASH HANDLING, STORAGE AND LOAD OUT OPERATION CONSISTING OF FLY ASH SURGE BIN, 18 ROTARY FEEDERS, 9 SCREW CONVEYORS, 2 DRAG CHAIN CONVEYORS, AND ONE WET CONDITIONING SCREW CONVEYOR ALL TOTALLY ENCLOSED

## PERMIT UNIT REQUIREMENTS

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1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. There shall be no visible emissions from the fly ash transfer operation, for a period or periods aggregating more than three minutes in any one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
3. PM10 emissions rate from each conveyor shall not exceed 0.000046 lb PM10/ton fly ash. [District Rule 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions rate from the fly ash surge bin loading operation shall not exceed 0.000046 lb PM10/ton fly ash. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum throughput of fly ash in the fly ash surge bin, as measured by the load out operation, shall not exceed either of the following limits: 96 tons/day or 18,000 tons/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily records of the amount of fly ash generated (in tons) at the facility and amount of fly ash processed (in tons) by the load out operation shall be maintained, retained on-site for a period of at least five (5) years, and made available for District inspection upon request. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT C

## Detailed Facility Report

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<b>Permit#</b>	<b>Equipment Description</b>
C-6923-1-2	BIOMASS RECEIVING, STORAGE, TRANSFER, AND SIZING OPERATION WITH OPTIONAL TRUCK TIPPER SERVED BY WATER SPRAY SYSTEM, DISC SCREEN, FUEL SIZER SERVED BY A WET MISTING SYSTEM AND FUEL STORAGE AREA WITH ENCLOSED CONVEYORS
C-6923-2-4	LIMESTONE/SODIUM BICARBONATE RECEIVING, STORAGE, AND TRANSFER OPERATION WITH AN ENCLOSED STORAGE SILO SERVED BY A BIN VENT FILTER, ENCLOSED TRUCK UNLOADING SYSTEM AND ENCLOSED TRANSFER SYSTEM
C-6923-3-7	185 MMBTU/HR ENERGY PRODUCTS OF IDAHO (EPI) BIOMASS-FIRED FLUIDIZED BUBBLING BED COMBUSTOR WITH ONE 10 MMBTU/HR NATURAL GAS-FIRED PREHEAT BURNER POWERING A 12.5 MW STEAM TURBINE GENERATOR, SERVED BY A SELECTIVE NON-CATALYTIC REDUCTION (SNCR) SYSTEM WITH AN AUTOMATED AMMONIA INJECTION SYSTEM, A LIMESTONE/SODIUM BICARBONATE INJECTION SYSTEM, A MULTICLONE, AND A PULSE JET BAGHOUSE
C-6923-4-1	14,500 GALLON PER MINUTE MECHANICAL/INDUCED DRAFT COOLING TOWER WITH 2 CELLS SERVED BY DRIFT ELIMINATORS
C-6923-5-6	FLY ASH HANDLING, STORAGE AND LOAD OUT OPERATION CONSISTING OF FLY ASH SURGE BIN, 18 ROTARY FEEDERS, 9 SCREW CONVEYORS, 2 DRAG CHAIN CONVEYORS, AND ONE WET CONDITIONING SCREW CONVEYOR ALL TOTALLY ENCLOSED

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# ATTACHMENT D

## Facility Comments/District Responses

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## **FACILITY COMMENTS/ DISTRICT RESPONSES**

The following facility comments were received regarding the proposed Title V Operating Permit for the Ampersand Chowchilla Biomass, LLC (District facility # C-6923). These comments are encapsulated below followed by the District's responses. A copy of the facility comment letter (dated 8/11/2016) is available at the District.

### **S-73-2-14**

#### **Facility Comment**

##### **C-6923-0-1 – Facility-wide Requirements.**

Conditions 45-48 of previous Title V operating permit C-6923-0-0 were omitted from draft permit. We request that these conditions be included back.

#### **District Response**

District Inspector Claire Gottschalk asked the Permits Department to remove these conditions regarding gasoline tanks on your facility-wide permit because they were placed on there in error. Although you do have a gasoline tank at the facility it holds less than 250 gallons therefore it does not require a permit from the District at this time. In an email dated September 15, 2016, facility representative Mr. Mark de Castro agreed that these conditions be removed.

#### **Facility Comment**

##### **C-6923-3-10 – 185 MMBtu/hr Energy Products of Idaho (EPI) Biomass-fired Fluidized Bubbling Bed Combustor.**

We request that references to SJVUAPCD Consent Decree Case No. 1:11-CV-00242-LJO-DLB on conditions 11, 12, and 20 on C-6923-3-10 be removed as shown on attached Proposed Modification to Current Permit to Operate Conditions (submitted with Title V Renewal Application on July 15, 2015). Also attached is the Court Order to Terminate the Consent Decree.

#### **District Response**

References to Consent Decree on conditions 11, 12, and 20 have been removed.