



SEP 15 2015

Mr. Rick Spurlock
Rio Bravo Fresno
3350 S Willow Ave
Fresno, Ca 93725

**Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # C-1820
Project # 1141393**

Dear Mr. Spurlock:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Rio Bravo Fresno at 3350 S Willow Avenue, Fresno, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,



Arnaud Marjollet
Director of Permit Services

AM:re/nc

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

Final Title V Permit Renewal Evaluation
Rio Bravo Fresno
C-1820

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TITLE V PERMIT RENEWAL EVALUATION
Electrical Services Cogeneration Operation

Engineer: Richard Edgehill
Date: September 9, 2015

Facility Number: C-1820
Facility Name: Rio Bravo Fresno
Mailing Address: 3350 S Willow Ave
Fresno, CA 93725

Contact Name: Rick Spurlock
Phone: (559) 264-4575

Responsible Official: Rick Spurlock
Title: VP and Plant Manager

Project # : C-1141393
Deemed Complete: May 12, 2014

I. PROPOSAL

Rio Bravo Fresno (RBF) was issued a Title V permit on January 13, 2000. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the renewed 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. The last Title V permit renewal was issued on 11/31/2009. This review will span from 11/31/2009 to the present.

II. FACILITY LOCATION

RBF is located at 3350 S Willow Avenue, Fresno, CA.

II. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

Except for the following Facility Specific Conditions, the existing Facility Wide Permit '0-3 conditions were replaced with Umbrella Template UM-0-3 conditions.

Facility Specific Conditions

1. *No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] N*
43. *The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1, 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, 9.5.2] Y*
44. *When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2 or 3 when mandated by the regulation. [40 CFR 68] Y*

V. SCOPE OF EPA AND PUBLIC REVIEW

With the exception of UM-0-3 for the facility wide PTO, applicant has not requested any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated during this current renewal review interval (11/31/09 to present)

- District Rule 2020, Exemptions
(amended December 20, 2007 ⇒ amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended December 18, 2008 ⇒ amended May 21, 2011)
- District Rule 2410, Prevention of Significant Deterioration
(became effective on November 26, 2012)
- District Rule 4352, Solid Fuel-Fired Boilers, Steam Generators, and Process Heaters (December 15, 2011)
- District Rule 4601, Architectural Coatings
(amended October 31, 2001 ⇒ amended December 17, 2009)
- 40 CFR Part 82, Subpart B, Stratospheric Ozone (amended June 25, 2013)
- 40 CFR, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (amended February 27, 2014)
- 40 CFR Part 82, Subpart F, Stratospheric Ozone (amended June 25, 2013)

B. Rules Removed during this current renewal review interval (11/31/09 to present)

- None.

C. Rules Added during this current renewal review interval (11/31/09 to present)

- District Rule 2410, Prevention of Significant Deterioration (adopted June 16, 2011, effective November 26, 2012)

- 40 CFR Part 63 Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (amended May 20, 2004)

D. Rules Not Updated during this current renewal review interval (11/31/09 to present)

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4102, Nuisance (amended December 17, 1992)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)

- District Rule 8011 - General Requirements (amended August 19, 2004)
- District Rule 8021 - Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031 - Bulk Materials (amended August 19, 2004)
- District Rule 8041 - Carryout and Trackout (amended August 19, 2004)
- District Rule 8051 - Open Areas (amended August 19, 2004)
- District Rule 8061 - Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071 - Unpaved Vehicle/Equipment Traffic Area (amended September 16, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended September 18, 2003)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM) (amended October 10, 1997)
- 40 CFR Part 68, Chemical Accident Prevention Provisions (amended April 9, 2004)

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit". For this facility, the following are not federally enforceable and will not be discussed in further detail:

A. Rules Added

There are no new rules that are not federally enforceable being added at this time.

B. Rules Not Updated

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

For this facility, condition #1 of the facility wide requirements C-1820-0-3 is based on District Rule 4102 listed above and is not Federally Enforceable through Title V.

- Title 17, California Code of Regulations, Section 92000 through 92540

No changes were made to these rules since the renewed Title V permit was issued, therefore, they will not be discussed any further.

VIII. **FEDERALLY ENFORCEABLE PERMIT REQUIREMENTS**

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

A. District Rule 2020 - Exemptions

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

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

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- 4) Addition of any new emissions unit which is subject to District permitting requirements.

- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable at this time.

C. District Rule 2410 – Prevention of Significant Deterioration

The prevention of significant deterioration (PSD) program is a construction permitting program for new major stationary sources and major modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant. The provisions of this rule apply to any source and the owner or operator of any source subject to any requirement under Title 40 Code of Federal Regulations (40 CFR) Part 52.21 as incorporated into this rule.

The rule did not create new requirements, but merely transfers the authority for the 40 CFR Part 52.21 requirements to the District. Prior to adoption of this rule, that authority was vested with the USEPA. This action does not involve construction and thus does not trigger additional PSD requirements for this source. Therefore, the facility is not subject to this rule and no further discussion is required.

D. District Rule 2520 – Federally Mandated Operating Permits

Greenhouse Gas Requirements

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

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

The PTO has conditions ensuring compliance with emissions limits, monitoring, compliance, source testing, and recordkeeping requirements. No changes have been made affecting compliance status.

E. District Rule 4601 - Architectural Coatings

This rule limits the emissions of VOCs from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). This Rule was amended (on 12/17/2009) which is after the beginning of the most recent renewal period starting on 11/31/2009, however UM-0-3 includes the updated rule language.

F. 40 CFR 60 Subpart Db

This subpart applies to each steam generating unit capable of combusting more than 100 MMBtu/hr heat input of fuels, which is constructed, modified, or reconstructed after June 19, 1984. The provisions of 40 CFR 60 Subpart Db will apply to the biomass boiler because the boiler's maximum firing rate is 352 MMBtu/hr and will be constructed after June 19, 1984.

Subpart Db requirements for the biomass boiler are listed in the following tables:

Pollutant	Requirement	Comment
NOx	Emissions limits for combusting coal, oil or natural gas [40 CFR 60.44b(a)(b)]	Not applicable as the annual capacity factor for natural gas is < 10% (natural gas is used only for startup and boiler stabilization). [40 CFR 60.44b(c)]
PM10	0.1 lb/MMBtu (construction, reconstruction, modification before February 28, 2005) with wood capacity factor > 30% [40 CFR 60.43b(c)(1)]. This applies at all times except startup, shutdown, or malfunction [40 CFR 60.46b(a)] Filterable PM emissions are limited to 0.030 lb/MMBtu heat input when burning coal, oil, <u>wood</u> , a mixture of these fuels, or a mixture of these fuels with any other fuels [40 CFR 60.43b(h)(1)]	Applicable, current PTO emissions limit is in compliance Not applicable as this applies to facilities installed after February 28, 2005.
Opacity	Opacity is limited to 20 percent (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity [40 CFR 60.43b(f)]	Applicable, Condition #23 of PTO '0-4 (Opacity Limit) is more stringent.

Monitoring/Performance Test/Records

Pollutant	Requirement	Comment
SOx	Maintain records and report to EPA demonstrating combustion of low sulfur wood [40 CFR 60.49b(r)], Maintain daily records of fuels combusted each day. [40 CFR 60.49b(d)(1)] Calculate annual capacity factor on a 12 month rolling average at the end of each calendar month [40 CFR 60.49b(d)(1)]	Current PTO requires daily records of types and quantity of all <u>biomass</u> received. The following new condition was added: <i>75. The owner/operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor for wood (biomass) 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)] Y</i>

PM, opacity	Install, Calibrate, Operate, Maintain, COMs [40 CFR 60.48b(a)] , COMs span value must be between 60 and 80% [40 CFR 60.48b(e)(1)] Conduct an annual source test for PM [40 CFR 60.46b(b)(d)]	The current permit includes conditions satisfying these requirements.
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The biomass boiler complies with the Subpart.

F. 40 CFR Part 63, Subpart DDDDD, Standard of Performance for Stationary Gas Turbines

RBF (C-1820) is a major source for HAPs because of HCl and the existing boiler is an Industrial Boiler which is a “boiler used in manufacturing, processing, mining, and refining or any industry to provide steam, hot water, or electricity (40 CFR 63.7575).” Therefore, 40 CFR 63 Subpart DDDDD is applicable.

Draft PTO C-1820-1-29 includes the requirements of this Subpart. Draft PTO conditions and comments/rationale are listed below.

PTO Condition	Comments/Rationale
34. <u>The maximum operating steam capacity is 230,000 pounds per hour at 955 degrees Fahrenheit and 1200 psig.</u> [District Rule 4301, 4352, 1081, & 40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit	RBF requested addition of this condition. 230,000 lb/hr steam production is equivalent to 28.5MW net electrical power output as stated in condition 52. RB Fresno is defining the maximum operating steam capacity for the purposes of clearly identifying the operating conditions necessary for performance testing.
35. Performance testing shall be conducted annually for NOx, CO, SOx, PM, PM (10), Hg and HCl <u>(except where a HCl CEMS is used for compliance) at the maximum within 90% of maximum operating steam capacity</u> using the following test methods, for NOx EPA Method 7E or ARB Method 100; for CO EPA Method 10 or ARB Method 100; for SOx EPA Method 6 or 6C; for PM EPA Method 5 (including back half); and for PM(10) EPA Method 5 (including back half assuming 100% of PM is PM10) or EPA Method	PM, PM10, Hg, and HCl source testing added. 40 CFR 63, Subpart DDDDD allows a facility to demonstrate compliance through an annual performance test or a HCl CEMS. Performance testing is conducted at normal, representative operating conditions. The language has been changed to reflect operating conditions within 90% of the defined maximum load.

<p>201A in combination with EPA Method 202, for Hg EPA Method 29 or EPA Method 30A or EPA Method 30B, for HCl EPA Method 26 or EPA Method 26A or any other test methods and procedures approved by the District. If 40 CFR 63, Subpart DDDDD performance test of a given constituent shows at least 2 consecutive years of emissions below 75 percent of the emission limit as described in 40 CFR 63.7515(b), the performance test for those constituents can be conducted every third year as described in that section. [District Rule 4301, 4352, 1081, & 40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit</p>	
<p>40. Permittee shall operate a Continuous Emissions Monitoring (CEM) system to monitor and record NO_x concentrations, O₂ concentrations, and CO concentrations as well as the NO_x emission rate whenever the unit is operating. The CEM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The CEM system must also comply with 40 CFR 60 Appendix B, Performance Specifications 2 and 3, and 40 CFR 60 Appendix F, Quality Assurance Procedures. Per Section 5.1.1 of Appendix F, at least once each calendar year, a Relative Accuracy Test Audit (RATA) must be conducted. Per Sections 5.1.2 and 5.1.3 of Appendix F, a Cylinder Gas Audit (CGA) or a Relative Accuracy Audit (RAA) must be conducted once each calendar quarter, except in the quarter where a RATA is performed. [District Rules 1080 and 4352, 5.5 and 40 CFR 60.7(c), 40 CFR 60.13, 40 CFR 60.48b and 40 CFR Part 63, Subpart DDDDD] Y</p>	
<p>58. Permittee shall comply with the requirements of 40 CFR 63, Subpart DDDDD. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit</p>	
<p>59. HCl emissions from the fluidized bed combustor shall not exceed 2.2e-02 lb/MMBtu. HCl emissions shall be determined according to the procedures in 40 CFR Part 63, Subpart DDDDD. All emission limits are 30-day rolling averages if a CEMS is used to monitor HCl</p>	<p>Subpart DDDDD Table 2</p>

emissions for compliance. [40 CFR Part 63, Subpart DDDDD] Y	
60. Hg emissions from the fluidized bed combustor shall not exceed 5.7e-06 lb/MMBtu heat input. [40 CFR Part 63, Subpart DDDDD] Y	Subpart DDDDD Table 2
61. CO emissions from the fluidized bed combustor shall not exceed 310 ppmvd @ 3% O2 on a 30-day rolling average basis. [40 CFR Part 63, Subpart DDDDD] Y	Subpart DDDDD Table 2
62. Filterable PM emissions from the fluidized bed combustor shall not exceed 1.1e-01 lb/MMBtu heat input. [40 CFR Part 63, Subpart DDDDD] Y	Subpart DDDDD Table 2
63. Opacity from the fluidized bed combustor shall not exceed 10% on a daily block average. [40 CFR Part 63, Subpart DDDDD] Y	
64. Minimum limestone injection rate shall be established as defined by 40 CFR 63.7575 as an operating limit during three-run performance test during HCl performance test. Sorbent injection rate data from sorbent injection rate monitors shall be collected every 15 minutes during the entire period of the performance tests. [40 CFR Part 63, Subpart DDDDD, Table 7] Y	
65. Minimum sorbent injection rate means the load fraction multiplied by the lowest hourly average limestone injection rate during the most recent performance test demonstrating compliance with the HCl emissions limit. Load fraction is the actual gross megawatt hourly average for the boiler operating day divided by the gross megawatt associated with the lowest injection rate during the performance test that established the minimum sorbent injection rate, expressed as a fraction (e.g. for 50% load the load fraction is 0.5). [40 CFR 63.7575, Definitions] Y	The load fraction definition has been revised to replace actual heat input with actual gross megawatt hourly average which is more feasible to measure. The facility has demonstrated compliance with the HCL limit so that minor variation of thermal efficiency affecting the linearity between heat input and MW output should not influence compliance.
66. Sorbent injection rate shall be monitored with data reduced to 30-day rolling averages, rolled by day. The 30-day rolling average limestone injection rate shall be maintained at or above the minimum sorbent injection rate. [40 CFR Part 63, Subpart DDDDD, Table 8] Y	
67. The limestone silo weight monitor used	

<p>for the sorbent injection rate must be installed, operated, and maintained according to the requirements of 40 CFR 63.7525 (d) and 40 CFR 63.7525 (i). [40 CFR Part 63, Subpart DDDDD, Table 8] Y</p>	
<p>68. In addition to the performance testing required by Condition 34, performance testing to demonstrate compliance with the requirements of 40 CFR 63, Subpart DDDDD must be conducted. If the requirements described in 40 CFR 63.7515(b) are met the performance test for those constituents can be conducted every third year as described in that section. If a CEMS is used for a constituent to demonstrate compliance, the applicable fuel analysis, annual performance test, and operating limits are not required. [40 CFR Part 63, Subpart DDDDD] Y</p>	
<p>69. If a CEMS is used to demonstrate compliance with an emission limit in 40 CFR 63 Subpart DDDDD, the CEM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The CEM system must also comply with 40 CFR 60 Appendix B, Performance Specifications 2 and 3, and 40 CFR 60 Appendix F, Quality Assurance Procedures. Per Section 5.1.1 of Appendix F, at least once each calendar year, a Relative Accuracy Test Audit (RATA) must be conducted. Per Sections 5.1.2 and 5.1.3 of Appendix F, a Cylinder Gas Audit (CGA) or and a Relative Accuracy Audit (RAA) must be conducted once each calendar quarter, except in the quarter where a RATA is performed. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit</p>	<p>Permittee has stated that conducting both a CGA and a RAA is not required under 40 CFR 60 and would place an unnecessary financial burden on the facility since the cost of a RAA is the same as a RATA. Condition 39 covers the same requirement for non MACT conditions and is worded correctly. (9-1-15 email)</p>
<p>70. A one-time energy assessment must be completed that meets the requirements of 40 CFR 63, Subpart DDDDD by January 31, 2016. [40 CFR Part 63, Subpart DDDDD] Y</p>	
<p>71. A continuous oxygen trim boiler is required to conduct a boiler tune-up every 5 years as specified in 40 CFR 63, Subpart DDDDD, §63.7575(a)(10)(i) inspection of</p>	<p>The five year boiler tune-up requirement is applicable to the Rio Bravo Fresno facility.</p>

<p>burner, ii) flame pattern, iii) air-to-fuel ratio, iv) optimization of CO emissions, v) measurement of CO concentration before and after tune up, and vi) report to EPA as per (a)(10)(vi)(A) thru (C). [40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters]</p>	
<p>72. Reports required by 40 CFR 63, Subpart DDDDD shall be submitted electronically or by hard copy to EPA as described in 40 CFR 63.7550 and to SJVAPCD. [40 CFR Part 63, Subpart DDDDD] Y</p>	

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

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). Sections of this regulation were amended in 2013, and Conditions 28 and 29 of C-1820-0-3 assure compliance with the requirements.

IX. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

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

B. Requirements not Addressed by Model General Permit Templates

RBF is not requesting any new permit shields within this Title V renewal project. In addition, RBF is not requesting any changes to the existing permit shields already included in their Title V operating permits. Therefore, all of the existing permit shields will be maintained on the revised permits for this renewal project.

C. Obsolete Permit Shields From Existing Permit Requirements

There are no obsolete permit shield conditions to be removed from the permits.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XI. ATTACHMENTS

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

ATTACHMENT A

Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: C-1820-0-4

EXPIRATION DATE: 11/30/2014

FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
4. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
5. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
6. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
7. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
8. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
9. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: RIO BRAVO FRESNO

Location: 3350 S WILLOW AVE, FRESNO, CA 93725

C-1820-0-4 - Sep 1 2015 8:17AM - EDGEHILL

10. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
12. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
13. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
14. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
15. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
16. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
17. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
18. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
19. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
20. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
21. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
22. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

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

23. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
24. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
25. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
26. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
27. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
28. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
29. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
30. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
31. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
32. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
33. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
34. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

35. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
36. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
37. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
38. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
39. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
40. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1, 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, 9.5.2] Federally Enforceable Through Title V Permit
43. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2 or 3 when mandated by the regulation. [40 CFR 68] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-1-29

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

352 MMBTU/HR CIRCULATING FLUIDIZED-BED BIOMASS COMBUSTOR USED TO PRODUCE STEAM FOR ELECTRICAL POWER GENERATION (28.5 MW), WITH ONE COOLING TOWER, ONE AIR PREHEATER, ONE BARETUBE ECONOMIZER, AND TWO 900 AND ONE 700 HP FANS

PERMIT UNIT REQUIREMENTS

1. No more than 500 lb/day of "Ashvantage" anti-slag additive shall be used in this combustor. [District Rule 2201] Federally Enforceable Through Title V Permit
2. In the event that the use of "Ashvantage" anti-slag additive causes a violation of any applicable requirement of this permit, the operator shall immediately cease usage of the anti-slag additive. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Ammonia shall be injected into the fluidized bed combustor as necessary to meet the limits in these conditions and whenever the combustor is in full operation. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Filterable PM10 emissions from the exhaust of the electrostatic precipitator shall not exceed 5.8 lb/hr, and condensable PM10 emissions shall not exceed 17.4 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Combustion contaminants shall not exceed 10 lb/hr. Combustion contaminants are defined as particulate matter discharged into the atmosphere from the burning of any kind of material containing carbon in a free or combined state. Lab analysis testing shall be performed during each source test to determine the total amount of non-combustion contaminants, which shall be subtracted from the total particulate measured during the annual PM performance test to determine the total combustion contaminants. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The SOx emissions (calculated as SO2) from the exhaust of the fluidized bed combustor shall not exceed 10.0 lb/hour nor 240 lb/day. [District NSR Rule, District Rule 4301] Federally Enforceable Through Title V Permit
7. Except during startup and shutdown periods, the NOx emissions (measured as NO2) from the exhaust of the fluidized bed combustor shall not exceed 0.08 lb/MMBTU, 660 lb/day, or 110 tons per year. [District NSR Rule, District Rules 4352, 5.1 and 4301] Federally Enforceable Through Title V Permit
8. Except during startup and shutdown periods, the carbon monoxide emissions from the fluidized bed combustor shall not exceed 400 ppmv @ 3% O2, 22 lb/hour, 528 lb/day, or 46 tons/year. [District NSR Rule and District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
9. During the startup and shutdown periods, the NOx emissions (measured as NO2) from the exhaust of the fluidized bed combustor shall not exceed 0.16 lb/MMBTU, 660 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. During startup and shutdown periods, the carbon monoxide emissions from the fluidized bed combustor shall not exceed 44 lb/hour, 528 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Startup is defined as the period of time, not to exceed 96 hours, during which the unit is set in operation and heated from a lower temperature to a steady state operating temperature. [District Rule 4352, 3.18, 5.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Shutdown is defined as the period of time, when fuel is curtailed and the unit begins cooling from the unit's normal operating temperature, as specified by the manufacturer, and ends when steam flow is zero or 24 hours have elapsed since the start of a shutdown, whichever occurs first. [District Rule 4352, 3.15, 5.3.4] Federally Enforceable Through Title V Permit
13. The emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up or shutdown. [District Rule 4352, 5.3.3] Federally Enforceable Through Title V Permit
14. The VOC emissions from the exhaust of the fluidized bed combustor shall not exceed 10.4 lb/hour nor 250 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The concentration of filterable PM10 in the exhaust from the electrostatic precipitator shall not exceed 0.010 gr/dscf corrected to 12% CO2. [District NSR Rule and District Rule 4201] Federally Enforceable Through Title V Permit
16. The concentration of ammonia in the exhaust of the fluidized bed combustor shall not exceed 25 ppmv at 3% O2. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The electrostatic precipitator shall be operated in a manner so as to minimize the emissions of particulate matter whenever the fluidized bed combustor is fired. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Only alfalfa, barley, beanstraw, corn, orchard prunings, vineyard prunings, oats, wheat, and forest residues shall be used as offset creditable fuels. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Only biomass and wood waste not included in the creditable fuels shall be used as non-creditable fuels. Biomass is defined as any organic material originating from plants including but not limited to products, by-products and wastes from agriculture, forestry, aquatic, and related industries, such as agricultural, energy or feed crops, residues and wastes, orchard and vineyard prunings and removal, stone fruit pits, nut shells, cotton gin trash, corn stalks and stover, straw, seedhulls, sugarcane leavings and bagasse, aquatic plants and algae, cull logs, eucalyptus logs, poplars, willows, switchgrass, alfalfa, bark, lawn, yard, and garden clippings, waste paper (unprinted), leaves, silvicultural residue, tree and brush prunings, sawdust, timber slash, mill scrap, wood and wood chips, and wood waste. Biomass does not include material containing sewage sludge or industrial, hazardous, radioactive, municipal solid waste, or any material chemically treated or derived from fossil fuels. Wood waste includes clean, chipped wood products, plywood, wood products, manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Fuels shall not be painted, oiled or stained. [District NSR Rule] Federally Enforceable Through Title V Permit
21. The NOx emission factor used to calculate emission offset credits for orchard and vineyard wastes shall be 4.3 lb NOx per ton, for forest residue shall be 4.0 lb NOx per ton and for all other permitted agricultural wastes shall be 4.26 lb NOx per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Open-burn emission factors used to determine the quantity of offsets available from the diversion of biomass (as defined in District Rule 2201, Section 3.10, 4/25/02 version) from open-burning are listed in District Policy SSP 2005 "Open Burn Emission Factors" . [District NSR Rule] Federally Enforceable Through Title V Permit
23. The owner/operator shall verify all emissions and related data and make the verifications available upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
24. The owner/operator shall provide certification for all fuel which is assigned offset credit. [District NSR Rule] Federally Enforceable Through Title V Permit
25. The owner/operator shall submit written contracts between the owner/operator and all fuel suppliers annually to the District for approval. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Agreements between each fuel supplier and the owner/operator shall be considered as part of the permit to operate after District approval. [District NSR Rule] Federally Enforceable Through Title V Permit
27. The owner/operator shall be responsible for ensuring that emission credits are properly evaluated according to the provisions of the agreements with fuel suppliers. [District NSR Rule] Federally Enforceable Through Title V Permit
28. The owner/operator shall project and use the proper mix of fuels to ensure that all emissions are offset as required with credits from the use of creditable fuels. [District NSR Rule] Federally Enforceable Through Title V Permit

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

29. The emission credits for the use of creditable fuels shall be calculated using the protocol approved in the District's December 9, 1999 correspondence to the facility. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Emission offset credit will be calculated using the formula $EC(y) = CO(y-1) + \text{Summation } (1/DF(i) \times T(i) \times EF(i))$, where $EC(y)$ = the amount of offset credit available for the year, $CO(y-1)$ = the amount of offset carryover available from the previous year, i = the i th load of biomass received for the offset year, $DF(i)$ = the distance factor for the i th load of biomass, $T(i)$ = the number of Tons of biomass in the i th load, and $EF(i)$ = the emission factor for the type of biomass in the i th load. [District NSR Rule] Federally Enforceable Through Title V Permit
31. The offset Distance Factor (DF) shall be 1.2 for biomass originating within a 15 mile radius of this facility and 2.0 for biomass originating outside of the 15 mile radius. [District NSR Rule] Federally Enforceable Through Title V Permit
32. The owner operator shall curtail operation proportionately and notify the District whenever, due to changes in the quantity or quality of wastes supplied, the emissions exceed the offsets. [District NSR Rule] Federally Enforceable Through Title V Permit
33. All fuels shall be burned on a first-in, first-out basis. Compliance with this condition shall be based on mixed fuel piles (first-mixed, first-burned). [District NSR Rule] Federally Enforceable Through Title V Permit
34. Performance testing shall be conducted annually for NO_x, CO, SO_x, PM, PM (10), Hg and HCl at the maximum operating capacity using the following test methods, for NO_x EPA Method 7E or ARB Method 100; for CO EPA Method 10 or ARB Method 100; for SO_x EPA Method 6 or 6C; for PM EPA Method 5 (including back half); and for PM(10) EPA Method 5 (including back half assuming 100% of PM is PM10) or EPA Method 201A in combination with EPA Method 202, for Hg EPA Method 29 or EPA Method 30A or EPA Method 30B, for HCl EPA Method 26 or EPA Method 26A or any other test methods and procedures approved by the District. If 40 CFR 63, Subpart DDDDD performance test of a given constituent shows at least 2 consecutive years of emissions below 75 percent of the emission limit as described in 40 CFR 63.7515(b), the performance test for those constituents can be conducted every third year as described in that section. [District Rule 4301, 4352, 1081, & 40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
35. The higher heating value of all as-fired solid fuels shall be certified by a third-party supplier or determined by ASTM Method E711, ASTM D5865, or other test method(s) with prior written approval of the APCO, ARB, and EPA. [District Rule 4352, 6.4] Federally Enforceable Through Title V Permit
36. All emissions measurements during a source test shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No compliance determination shall be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.3.2, 6.3.3] Federally Enforceable Through Title V Permit
37. The District must be notified 30 days prior to any performance test, and a test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
38. The results of each performance test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
39. Permittee shall operate a Continuous Emissions Monitoring (CEM) system to monitor and record NO_x concentrations, O₂ concentrations, and CO concentrations as well as the NO_x emission rate whenever the unit is operating. The CEM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The CEM system must also comply with 40 CFR 60 Appendix B, Performance Specifications 2 and 3, and 40 CFR 60 Appendix F, Quality Assurance Procedures. Per Section 5.1.1 of Appendix F, at least once each calendar year, a Relative Accuracy Test Audit (RATA) must be conducted. Per Sections 5.1.2 and 5.1.3 of Appendix F, a Cylinder Gas Audit (CGA) or a Relative Accuracy Audit (RAA) must be conducted once each calendar quarter, except in the quarter where a RATA is performed. [District Rules 1080 and 4352, 5.5 and 40 CFR 60.7(c), 40 CFR 60.13, 40 CFR 60.48b and 40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
40. Compliance with the daily NO_x emission limit shall be based on a block 24-hour averaging period using CEM system data. [District Rule 4352, 5.2 and 40 CFR 60.44b(i)] Federally Enforceable Through Title V Permit
41. The continuous monitoring equipment must be linked to a data acquisition system that is accessible via modem. [District Rules 1080 and 4352, 5.5] 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.

42. Permittee shall operate a Continuous Opacity Monitoring (COM) system to monitor and record opacity whenever the unit is operating. The COM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The COM system must also satisfy Performance Specification 1 of 40 CFR 60 Appendix B. [District Rule 1080 and 40 CFR 60.7(c), 40 CFR 60.13, 40 CFR 60.48b, and 40 CFR 64.3(a) and (d)] Federally Enforceable Through Title V Permit
43. A quarterly CEM and COM report shall be submitted to the District which includes the following: hours of operation, the date and time of each exceedance of emissions limits (including startup, shutdown, malfunctions or any other reason), the quantity of excess emissions, any conversion factors used to calculate excess emissions, the nature and cause of each malfunction, any corrective action taken and any preventive measures adopted, hours of CEM (and COM) down time, and the cause of all CEM (and COM) down time. [District Rules 1080 and 4352, 5.5; 40 CFR 60.49b(h), and 40 CFR 64.3(d)(i)] Federally Enforceable Through Title V Permit
44. Quarterly reports shall be submitted to the District within 30 days after the end of each calendar quarter. [District Rules 1080 and 4352, 5.5] Federally Enforceable Through Title V Permit
45. Results of continuous emissions monitoring must 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
46. A violation of NOx emission standards indicated by the NOx CEMS shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
47. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. Operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
48. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR part 64] Federally Enforceable Through Title V Permit
49. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR part 64] Federally Enforceable Through Title V Permit
50. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR part 64] Federally Enforceable Through Title V Permit
51. All equipment or systems installed or used to achieve compliance with the terms and conditions of this Title V permit shall be maintained in good working order and be operated as efficiently as possible to minimize air pollution emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
52. The net electrical power output shall not exceed 28.5 MW. [District NSR Rule] Federally Enforceable Through Title V Permit
53. Natural gas, butane, and propane may be used as start-up fuel and combustion stabilization purposes only. [District NSR Rule] Federally Enforceable Through Title V Permit
54. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
55. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
56. The storage and handling of fuels shall be conducted so as to minimize the potential of any fire in the facility's fuel storage area. [District Rule 4101]
57. Permittee shall comply with the requirements of 40 CFR 63, Part DDDDD. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

58. HCl emissions from the fluidized bed combustor shall not exceed 2.2e-02 lb/MMBtu. HCl emissions shall be determined according to the procedures in 40 CFR Part 63, Subpart DDDDD. All emission limits are 30-day rolling averages if a CEMS is used to monitor HCl emissions for compliance. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
59. Hg emissions from the fluidized bed combustor shall not exceed 5.7e-06 lb/MMBtu heat input. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
60. CO emissions from the fluidized bed combustor shall not exceed 310 ppmvd @ 3% O2 on a 30-day rolling average basis. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
61. Filterable PM emissions from the fluidized bed combustor shall not exceed 1.1e-01 lb/MMBtu heat input. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
62. Opacity from the fluidized bed combustor shall not exceed 10% on a daily block average. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
63. Minimum limestone injection rate shall be established as defined by 40 CFR 63.7575 as an operating limit during three-run performance test during HCl performance test. Sorbent injection rate data from sorbent injection rate monitors shall be collected every 15 minutes during the entire period of the performance tests. [40 CFR Part 63, Subpart DDDDD, Table 7] Federally Enforceable Through Title V Permit
64. Minimum sorbent injection rate means the load fraction multiplied by the lowest hourly average limestone injection rate during the most recent performance test demonstrating compliance with the HCl emissions limit. Load fraction is the actual gross megawatt hourly average for the boiler operating day divided by the gross megawatt associated with the lowest injection rate during the performance test that established the minimum sorbent injection rate, expressed as a fraction (e.g. for 50% load the load fraction is 0.5). [40 CFR 63.7575, Definitions] Federally Enforceable Through Title V Permit
65. Sorbent injection rate shall be monitored with data reduced to 30-day rolling averages, rolled by day. The 30-day rolling average limestone injection rate shall be maintained at or above the minimum sorbent injection rate. [40 CFR Part 63, Subpart DDDDD, Table 8] Federally Enforceable Through Title V Permit
66. The limestone silo weight monitor used for the sorbent injection rate must be installed, operated, and maintained according to the requirements of 40 CFR 63.7525 (d) and 40 CFR 63.7525 (i). [40 CFR Part 63, Subpart DDDDD, Table 8] Federally Enforceable Through Title V Permit
67. In addition to the performance testing required by Condition 34, performance testing to demonstrate compliance with the requirements of 40 CFR 63, Subpart DDDDD must be conducted. If the requirements described in 40 CFR 63.7515(b) are met the performance test for those constituents can be conducted every third year as described in that section. If a CEMS is used for a constituent to demonstrate compliance, the applicable fuel analysis, annual performance test, and operating limits are not required. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
68. If a CEMS is used to demonstrate compliance with an emission limit in 40 CFR 63 Subpart DDDDD, the CEM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The CEM system must also comply with 40 CFR 60 Appendix B, Performance Specifications 2 and 3, and 40 CFR 60 Appendix F, Quality Assurance Procedures. Per Section 5.1.1 of Appendix F, at least once each calendar year, a Relative Accuracy Test Audit (RATA) must be conducted. Per Sections 5.1.2 and 5.1.3 of Appendix F, a Cylinder Gas Audit (CGA) and a Relative Accuracy Audit (RAA) must be conducted once each calendar quarter, except in the quarter where a RATA is performed. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
69. A one-time energy assessment must be completed that meets the requirements of 40 CFR 63, Subpart DDDDD by January 31, 2016. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
70. Reports required by 40 CFR 63, Subpart DDDDD shall be submitted electronically or by hard copy to EPA as described in 40 CFR 63.7550 and to SJVAPCD. [40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit

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

71. Permittee shall maintain daily records of the amount of "Ashvantage" anti-slag additive used. [Rule 2201] Federally Enforceable Through Title V Permit
72. Permittee shall record the higher heating value of the as-fired fuel on a monthly basis. The HHV shall be determined on either a composite monthly sample (comprised of weekly grab samples, or biweekly grab samples). [District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
73. Records of all daily fuel consumption shall be maintained on site and submitted to the District with quarterly reports and upon request. [District NSR Rule, District Rule 4352, 6.2.1 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
74. The owner/operator shall maintain daily records of the type and quantity of all biomass received. [District NSR Rule and District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
75. The owner/operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor for wood (biomass) 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
76. All records required by this permit shall be retained on site for a minimum of five years, and shall be made available for District inspection upon request. [District NSR Rule, and District Rules 2520, 9.4.2 and 4352, 6.2.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-2-7

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

BIOMASS FUEL RECEIVING AND UNLOADING OPERATION CONSISTING OF TWO 10'X70' TILTING LIFT PLATFORMS WITH TELESCOPING HYDRAULIC CYLINDERS FOR DUMPING INTO A RECEIVING HOPPER OF 5000 CU.FT CAPACITY. RATING: 365 HP.

PERMIT UNIT REQUIREMENTS

1. Fugitive emissions from all fuel transfer points shall be controlled to prevent excessive dust during operation. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Fogging dust controls shall be operated at all times when handling any fuels. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All conveyor covers shall be maintained securely in place and without leakage. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Operator shall maintain windscreen to prevent fugitive dust from storage piles. All screens shall be repaired within 24 hours. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Visible emissions from each transfer point shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-3-5

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

FUEL HANDLING SYSTEM CONSISTING OF COLLECTING BELT CONVEYOR, STACKER CONVEYOR, STORAGE, OVERPILE AND UNDERPILE RECLAIMERS, RECLAIM TRANSFER(CHAIN & BELT CONVEYOR, SELF CLEANING MAGNET, SCREEN CONVEYOR, SHREDDER, FEED CONVEYOR & BIN). RATING: 295 HP

PERMIT UNIT REQUIREMENTS

1. Fugitive emissions from all fuel transfer points and storage piles shall be controlled to prevent excessive dust during operation. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Visible emission from each transfer point shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-4-4

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:
ONE MULTICLONE MECHANICAL DUST COLLECTOR.

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PERMIT UNIT REQUIREMENTS

1. The particulate matter concentration exiting the multiclone shall not exceed 0.5 grains/dscf at 12% CO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Multiclone collector shall be strictly maintained at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. At no time shall the emissions passing through the multiclone be allowed to bypass the electrostatic precipitator. [District NSR Rule] Federally Enforceable Through Title V Permit

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

Facility Name: RIO BRAVO FRESNO
Location: 3350 S WILLOW AVE, FRESNO, CA 93725
C-1820-4-4: Sep 1 2015 8:17AM - EDGEHILR

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-5-13

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

ONE 238 KVA RESEARCH COTTREL ELECTROSTATIC PRECIPITATOR EXHAUSTING TO ONE 147 FEET HIGH BY 8 FEET DIAMETER CARBON STEEL STACK

PERMIT UNIT REQUIREMENTS

1. Particulate matter concentration shall not exceed 0.010 grains/dscf corrected at 12% CO₂. [District NSR Rule and 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. Electrostatic Precipitator shall be strictly maintained at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The precipitator automatic rapping system is to be operated to maximize collection efficiency including only one rapping position to be energized at any one time to minimize dust re-entrainment. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All fields shall be operated at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Secondary voltage limit settings shall be maintained between 40 and 80 kilovolts at each cell. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Secondary current (amperage) limit settings shall be maintained between 0.05 and 1.40 amps at cell #1, 0.2 and 1.40 amps at cell #2, and 0.4 and 1.40 amps at cell #3. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Records shall be maintained on the quality and accuracy of all instruments used to verify compliance with the terms and conditions of the Permit to Operate and District regulations. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Data from all monitors shall be submitted quarterly to the District. Malfunctions in the monitoring equipment shall be reported to the District. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
10. Source testing shall be required annually or as often as deemed necessary by the Air Pollution Control District. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Source testing to measure particulate matter including condensibles and particulate matter not including condensibles, shall be conducted using EPA Methods 5 and 8, and in accordance with Rule 1081, section 6.0 (12/16/93). [District Rule 1081; PSD SJ 76-44] Federally Enforceable Through Title V Permit
12. Each cell voltage and current (amperage) shall be checked and recorded on a daily basis. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-6-8

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

ASH COLLECTION SYSTEM CONSISTING OF ENCLOSED DRY ASH CONVEYORS COLLECTING DRY ASH FROM THE BOILER, AIR HEATER, AND AIR POLLUTION CONTROL SYSTEM; ONE (1) ENCLOSED DRY ASH ELEVATOR; ONE (1) 4,000 FT³ DRY ASH STORAGE SILO SERVED BY A FLEX-KLEEN MODEL 84 BUBS 9LLG BAGHOUSE; ONE (1) WET ASH UNLOADING SYSTEM WITH A WET PUG MILL; ONE (1) DRY ASH UNLOADING SYSTEM WITH A SLY XP DUST-FREE LOADING SPOUT SERVED BY A DISA MODEL RJCA BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Fugitive emissions from all ash transfer points shall be controlled to prevent excessive dust during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Visible emissions from baghouses serving the dry ash silo loading and unloading operations shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouses serving the dry ash silo loading and unloading operations shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. A spare set of bags for each baghouse serving the dry ash silo loading and unloading operations shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Each baghouse serving the dry ash silo loading and unloading operations 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
8. Every time the baghouse operates, the differential pressure gauge reading shall be in the range of 0 to 6 inches of water column. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Dust collector filters shall be inspected quarterly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected quarterly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Visible emissions from all ash transfer points shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The maximum combined daily quantity of dry ash and wet ash (on a dry basis) unloaded from the dry ash storage silo shall not exceed 200 ton-dry ash/day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. For the wet ash unloading process, compliance with the dry ash maximum daily unloading throughput limit shall be demonstrated utilizing the following calculation: [equivalent quantity of dry ash unloaded from the storage silo (ton-dry ash /day)] = [quantity of wet ash unloaded from the silo (lb-wet ash unloaded/day)] x [1 - wet ash moisture content (lb-water / lb-wet ash)]. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Moisture content of wet ash unloaded from the dry ash storage silo shall be maintain above 10% or greater, by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The percent moisture of wet ash unloaded from the dry ash storage silo shall be determined by weighing an approximately 2-lb sample of wet ash, bringing the sample to dryness in a drying oven, then weighing the dried sample; the weight difference is the moisture content. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Moisture content of wet ash unloaded from the dry ash storage silo shall be measured on monthly basis and when requested by the District. [District Rule 2201] Federally Enforceable Through Title V Permit
17. PM10 emissions from the baghouse serving the dry ash storage silo loading system shall not exceed 0.0072 lb/ton of dry ash loaded in the silo. [District Rule 2201] Federally Enforceable Through Title V Permit
18. PM10 emissions from the baghouse serving the dry ash unloading system shall not exceed 0.02 lb/ton of dry ash loaded in truck. [District Rule 2201] Federally Enforceable Through Title V Permit
19. PM10 emissions during the truck closing process, after truck is loaded with dry ash, shall not exceed 0.037 lb/ton of dry ash loaded in truck. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Daily records of the total quantity of dry ash, wet ash, and total dry ash calculated as the sum of dry ash and wet ash (on a dry ash basis), unloaded from the dry ash storage silo shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
21. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. Record of monthly moisture content of the wet ash unloaded from the dry ash storage silo shall be maintained, retained on-site for a period of at least five (5) 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.

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-8-4

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:
COOLING TOWER FOR ELECTRIC POWER PRODUCTION

PERMIT UNIT REQUIREMENTS

1. {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
2. No hexavalent chromium containing compounds shall be added to the water that is circulating through the cooling tower or will circulate through the cooling tower. [District Rule 7012] Federally Enforceable Through Title V Permit
3. The operator shall maintain records of all circulating water tests performed. Records shall be maintained for at least 5 years and shall be made available to the District upon request. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-11-2

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

SAND AND LIMESTONE RECEIVING AND STORAGE OPERATION INCLUDING ONE PNEUMATICALLY-FILLED 120-TON STORAGE SILO WITH FABRIC DUST COLLECTOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] Federally Enforceable Through Title V Permit
2. Visible emissions shall not exceed 1/4 Ringelmann or equivalent 5% opacity. [District Rule 4101]
3. Sand and limestone shall not be transferred into silo unless fabric filter baghouse is operating and functioning properly. [District Rule 1070] Federally Enforceable Through Title V Permit
4. Collected fines shall be returned to sand and limestone system. [District Rule 1070] Federally Enforceable Through Title V Permit
5. Sand and limestone receiving shall not exceed 48 hr/month. [District Rule 1070] Federally Enforceable Through Title V Permit
6. Silo fabric filter baghouse particulate matter (PM-10) emission rate shall not exceed 0.141 lb/hr and 0.02 gr/scf. [District Rule 4201, 4202] Federally Enforceable Through Title V Permit
7. Fabric filter baghouse shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 1070] Federally Enforceable Through Title V Permit
8. Fabric filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 1070] Federally Enforceable Through Title V Permit
9. The records of hours of operation of sand and limestone receiving system shall be maintained on a monthly basis. [District Rule 1070] Federally Enforceable Through Title V Permit
10. Records of fabric filter baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 1070] Federally Enforceable Through Title V Permit
11. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: C-1820-0-3

EXPIRATION DATE: 11/30/2014

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: RIO BRAVO FRESNO
Location: 3350 S WILLOW AVE, FRESNO, CA 93725
C-1820-0-3: Jul 8 2015 11:25AM -- EDGEHILL

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/04) or Rule 8011 (8/19/04). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601, sections 5.1, 5.2, 5.3, and 5.8 (12/17/09); 8021 (8/19/04); 8031 (8/19/04); 8041 (8/19/04); 8051 (8/19/04); 8061 (8/19/04); and 8071 (9/16/04). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1, 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, 9.5.2] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2 or 3 when mandated by the regulation. [40 CFR 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-1820-1-28

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

352 MMBTU/HR CIRCULATING FLUIDIZED-BED BIOMASS COMBUSTOR USED TO PRODUCE STEAM FOR ELECTRICAL POWER GENERATION (28.5 MW), WITH ONE COOLING TOWER, ONE AIR PREHEATER, ONE BARETUBE ECONOMIZER, AND TWO 900 AND ONE 700 HP FANS

PERMIT UNIT REQUIREMENTS

1. No more than 500 lb/day of "Ashvantage" anti-slag additive shall be used in this combustor. [District Rule 2201] Federally Enforceable Through Title V Permit
2. In the event that the use of "Ashvantage" anti-slag additive causes a violation of any applicable requirement of this permit, the operator shall immediately cease usage of the anti-slag additive. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Ammonia shall be injected into the fluidized bed combustor as necessary to meet the limits in these conditions and whenever the combustor is in full operation. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Filterable PM10 emissions from the exhaust of the electrostatic precipitator shall not exceed 5.8 lb/hr, and condensable PM10 emissions shall not exceed 17.4 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Combustion contaminants shall not exceed 10 lb/hr. Combustion contaminants are defined as particulate matter discharged into the atmosphere from the burning of any kind of material containing carbon in a free or combined state. Lab analysis testing shall be performed during each source test to determine the total amount of non-combustion contaminants, which shall be subtracted from the total particulate measured during the annual PM performance test to determine the total combustion contaminants. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The SOx emissions (calculated as SO2) from the exhaust of the fluidized bed combustor shall not exceed 10.0 lb/hour nor 240 lb/day. [District NSR Rule, District Rule 4301] Federally Enforceable Through Title V Permit
7. Except during startup and shutdown periods, the NOx emissions (measured as NO2) from the exhaust of the fluidized bed combustor shall not exceed 0.08 lb/MMBTU, 660 lb/day, or 110 tons per year. [District NSR Rule, District Rules 4352, 5.1 and 4301] Federally Enforceable Through Title V Permit
8. Except during startup and shutdown periods, the carbon monoxide emissions from the fluidized bed combustor shall not exceed 400 ppmv @ 3% O2, 22 lb/hour, 528 lb/day, or 46 tons/year. [District NSR Rule and District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
9. During the startup and shutdown periods, the NOx emissions (measured as NO2) from the exhaust of the fluidized bed combustor shall not exceed 0.16 lb/MMBTU, 660 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
10. During startup and shutdown periods, the carbon monoxide emissions from the fluidized bed combustor shall not exceed 44 lb/hour, 528 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Startup is defined as the period of time, not to exceed 96 hours, during which the unit is set in operation and heated from a lower temperature to a steady state operating temperature. [District Rule 4352, 3.18, 5.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Shutdown is defined as the period of time, when fuel is curtailed and the unit begins cooling from the unit's normal operating temperature, as specified by the manufacturer, and ends when steam flow is zero or 24 hours have elapsed since the start of a shutdown, whichever occurs first. [District Rule 4352, 3.15, 5.3.4] Federally Enforceable Through Title V Permit
13. The emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up or shutdown. [District Rule 4352, 5.3.3] Federally Enforceable Through Title V Permit
14. The VOC emissions from the exhaust of the fluidized bed combustor shall not exceed 10.4 lb/hour nor 250 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The concentration of filterable PM10 in the exhaust from the electrostatic precipitator shall not exceed 0.010 gr/dscf corrected to 12% CO2. [District NSR Rule and District Rule 4201] Federally Enforceable Through Title V Permit
16. The concentration of ammonia in the exhaust of the fluidized bed combustor shall not exceed 25 ppmv at 3% O2. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The electrostatic precipitator shall be operated in a manner so as to minimize the emissions of particulate matter whenever the fluidized bed combustor is fired. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Only alfalfa, barley, beanstraw, corn, orchard prunings, vineyard prunings, oats, wheat, and forest residues shall be used as offset creditable fuels. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Only biomass and wood waste not included in the creditable fuels shall be used as non-creditable fuels. Biomass is defined as any organic material originating from plants including but not limited to products, by-products and wastes from agriculture, forestry, aquatic, and related industries, such as agricultural, energy or feed crops, residues and wastes, orchard and vineyard prunings and removal, stone fruit pits, nut shells, cotton gin trash, corn stalks and stover, straw, seedhulls, sugarcane leavings and bagasse, aquatic plants and algae, cull logs, eucalyptus logs, poplars, willows, switchgrass, alfalfa, bark, lawn, yard, and garden clippings, waste paper (unprinted), leaves, silvicultural residue, tree and brush prunings, sawdust, timber slash, mill scrap, wood and wood chips, and wood waste. Biomass does not include material containing sewage sludge or industrial, hazardous, radioactive, municipal solid waste, or any material chemically treated or derived from fossil fuels. Wood waste includes clean, chipped wood products, plywood, wood products, manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Fuels shall not be painted, oiled or stained. [District NSR Rule] Federally Enforceable Through Title V Permit
21. The NOx emission factor used to calculate emission offset credits for orchard and vineyard wastes shall be 4.3 lb NOx per ton, for forest residue shall be 4.0 lb NOx per ton and for all other permitted agricultural wastes shall be 4.26 lb NOx per ton. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Open-burn emission factors used to determine the quantity of offsets available from the diversion of biomass (as defined in District Rule 2201, Section 3.10, 4/25/02 version) from open-burning are listed in District Policy SSP 2005 "Open Burn Emission Factors". [District NSR Rule] Federally Enforceable Through Title V Permit
23. The owner/operator shall verify all emissions and related data and make the verifications available upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
24. The owner/operator shall provide certification for all fuel which is assigned offset credit. [District NSR Rule] Federally Enforceable Through Title V Permit
25. The owner/operator shall submit written contracts between the owner/operator and all fuel suppliers annually to the District for approval. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Agreements between each fuel supplier and the owner/operator shall be considered as part of the permit to operate after District approval. [District NSR Rule] Federally Enforceable Through Title V Permit
27. The owner/operator shall be responsible for ensuring that emission credits are properly evaluated according to the provisions of the agreements with fuel suppliers. [District NSR Rule] Federally Enforceable Through Title V Permit
28. The owner/operator shall project and use the proper mix of fuels to ensure that all emissions are offset as required with credits from the use of creditable fuels. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

29. The emission credits for the use of creditable fuels shall be calculated using the protocol approved in the District's December 9, 1999 correspondence to the facility. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Emission offset credit will be calculated using the formula $EC(y) = CO(y-1) + \text{Summation } (1/DF(i) \times T(i) \times EF(i))$, where $EC(y)$ = the amount of offset credit available for the year, $CO(y-1)$ = the amount of offset carryover available from the previous year, i = the i th load of biomass received for the offset year, $DF(i)$ = the distance factor for the i th load of biomass, $T(i)$ = the number of Tons of biomass in the i th load, and $EF(i)$ = the emission factor for the type of biomass in the i th load. [District NSR Rule] Federally Enforceable Through Title V Permit
31. The offset Distance Factor (DF) shall be 1.2 for biomass originating within a 15 mile radius of this facility and 2.0 for biomass originating outside of the 15 mile radius. [District NSR Rule] Federally Enforceable Through Title V Permit
32. The owner operator shall curtail operation proportionately and notify the District whenever, due to changes in the quantity or quality of wastes supplied, the emissions exceed the offsets. [District NSR Rule] Federally Enforceable Through Title V Permit
33. All fuels shall be burned on a first-in, first-out basis. Compliance with this condition shall be based on mixed fuel piles (first-mixed, first-burned). [District NSR Rule] Federally Enforceable Through Title V Permit
34. Performance testing shall be conducted annually for NO_x, CO, SO_x, PM and PM(10) at the maximum operating capacity using following test methods; for NO_x EPA Method 7E or ARB Method 100; for CO EPA Method 10 or ARB Method 100; for SO_x EPA Method 6 or 6C ; for PM EPA Method 5 (including back half); and for PM(10) EPA Method 5 (including back half assuming 100% of PM is PM10) or EPA Method 201A in combination with EPA Method 202 or any others test methods and procedures approved by the District. [District Rule 4301, 4352 & 1081] Federally Enforceable Through Title V Permit
35. The higher heating value of all as-fired solid fuels shall be certified by a third-party supplier or determined by ASTM Method E711, ASTM D5865, or other test method(s) with prior written approval of the APCO, ARB, and EPA. [District Rule 4352, 6.4] Federally Enforceable Through Title V Permit
36. All emissions measurements during a source test shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No compliance determination shall be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.3.2, 6.3.3] Federally Enforceable Through Title V Permit
37. The District must be notified 30 days prior to any performance test, and a test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
38. The results of each performance test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
39. Permittee shall operate a Continuous Emissions Monitoring (CEM) system to monitor and record NO_x concentrations and O₂ concentrations, as well as the NO_x emission rate whenever the unit is operating. The CEM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The CEM system must also comply with 40 CFR 60 Appendix B, Performance Specifications 2 and 3, and 40 CFR 60 Appendix F, Quality Assurance Procedures. Per Section 5.1.1 of Appendix F, at least once each calendar year, a Relative Accuracy Test Audit (RATA) must be conducted. Per Sections 5.1.2 and 5.1.3 of Appendix F, a Cylinder Gas Audit (CGA) or a Relative Accuracy Audit (RAA) must be conducted once each calendar quarter, except in the quarter where a RATA is performed. [District Rules 1080 and 4352, 5.5 and 40 CFR 60.7(c), 40 CFR 60.13, and 40 CFR 60.48b] Federally Enforceable Through Title V Permit
40. Compliance with the daily NO_x emission limit shall be based on a block 24-hour averaging period using CEM system data. [District Rule 4352, 5.2 and 40 CFR 60.44b(i)] Federally Enforceable Through Title V Permit
41. The continuous monitoring equipment must be linked to a data acquisition system that is accessible via modem. [District Rules 1080 and 4352, 5.5] 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.

42. Permittee shall operate a Continuous Opacity Monitoring (COM) system to monitor and record opacity whenever the unit is operating. The COM system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c), 60.13, and 60.48b. The COM system must also satisfy Performance Specification 1 of 40 CFR 60 Appendix B. [District Rule 1080 and 40 CFR 60.7(c), 40 CFR 60.13, 40 CFR 60.48b, and 40 CFR 64.3(a) and (d)] Federally Enforceable Through Title V Permit
43. A quarterly CEM and COM report shall be submitted to the District which includes the following: hours of operation, the date and time of each exceedance of emissions limits (including startup, shutdown, malfunctions or any other reason), the quantity of excess emissions, any conversion factors used to calculate excess emissions, the nature and cause of each malfunction, any corrective action taken and any preventive measures adopted, hours of CEM (and COM) down time, and the cause of all CEM (and COM) down time. [District Rules 1080 and 4352, 5.5; 40 CFR 60.49b(h), and 40 CFR 64.3(d)(i)] Federally Enforceable Through Title V Permit
44. Quarterly reports shall be submitted to the District within 30 days after the end of each calendar quarter. [District Rules 1080 and 4352, 5.5] Federally Enforceable Through Title V Permit
45. Results of continuous emissions monitoring must 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
46. A violation of NOx emission standards indicated by the NOx CEMS shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
47. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. Operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
48. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR part 64] Federally Enforceable Through Title V Permit
49. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR part 64] Federally Enforceable Through Title V Permit
50. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR part 64] Federally Enforceable Through Title V Permit
51. All equipment or systems installed or used to achieve compliance with the terms and conditions of this Title V permit shall be maintained in good working order and be operated as efficiently as possible to minimize air pollution emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
52. The net electrical power output shall not exceed 28.5 MW. [District NSR Rule] Federally Enforceable Through Title V Permit
53. Natural gas, butane, and propane may be used as start-up fuel and combustion stabilization purposes only. [District NSR Rule] Federally Enforceable Through Title V Permit
54. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
55. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
56. The storage and handling of fuels shall be conducted so as to minimize the potential of any fire in the facility's fuel storage area. [District Rule 4101]
57. Permittee shall maintain daily records of the amount of "Ashvantage" anti-slag additive used. [District Rule 2201] Federally Enforceable Through Title V Permit

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

58. Permittee shall record the higher heating value of the as-fired fuel on a monthly basis. The HHV shall be determined on either a composite monthly sample (comprised of weekly grab samples, or biweekly grab samples). [District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
59. Records of all daily fuel consumption shall be maintained on site and submitted to the District with quarterly reports and upon request. [District NSR Rule, District Rule 4352, 6.2.1 and 40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
60. The owner/operator shall maintain daily records of the type and quantity of all biomass received. [District NSR Rule and District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
61. All records required by this permit shall be retained on site for a minimum of five years, and shall be made available for District inspection upon request. [District NSR Rule, and District Rules 2520, 9.4.2 and 4352, 6.2.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-2-6

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

BIOMASS FUEL RECEIVING AND UNLOADING OPERATION CONSISTING OF TWO 10'X70' TILTING LIFT PLATFORMS WITH TELESCOPING HYDRAULIC CYLINDERS FOR DUMPING INTO A RECEIVING HOPPER OF 5000 CU.FT CAPACITY. RATING: 365 HP.

PERMIT UNIT REQUIREMENTS

1. Fugitive emissions from all fuel transfer points shall be controlled to prevent excessive dust during operation. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Fogging dust controls shall be operated at all times when handling any fuels. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All conveyor covers shall be maintained securely in place and without leakage. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Operator shall maintain windscreen to prevent fugitive dust from storage piles. All screens shall be repaired within 24 hours. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Visible emissions from each transfer point shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-3-4

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

FUEL HANDLING SYSTEM CONSISTING OF COLLECTING BELT CONVEYOR, STACKER CONVEYOR, STORAGE, OVERPILE AND UNDERPILE RECLAIMERS, RECLAIM TRANSFER(CHAIN & BELT CONVEYOR, SELF CLEANING MAGNET, SCREEN CONVEYOR, SHREDDER, FEED CONVEYOR & BIN). RATING: 295 HP

PERMIT UNIT REQUIREMENTS

1. Fugitive emissions from all fuel transfer points and storage piles shall be controlled to prevent excessive dust during operation. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Visible emission from each transfer point shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-4-3

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:
ONE MULTICLONE MECHANICAL DUST COLLECTOR.

PERMIT UNIT REQUIREMENTS

1. The particulate matter concentration exiting the multiclone shall not exceed 0.5 grains/dscf at 12% CO₂. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Multiclone collector shall be strictly maintained at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
3. At no time shall the emissions passing through the multiclone be allowed to bypass the electrostatic precipitator. [District NSR Rule] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-5-12

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

ONE 238 KVA RESEARCH COTTREL ELECTROSTATIC PRECIPITATOR EXHAUSTING TO ONE 147 FEET HIGH BY 8 FEET DIAMETER CARBON STEEL STACK

PERMIT UNIT REQUIREMENTS

1. Particulate matter concentration shall not exceed 0.010 grains/dscf corrected at 12% CO₂. [District NSR Rule and 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. Electrostatic Precipitator shall be strictly maintained at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The precipitator automatic rapping system is to be operated to maximize collection efficiency including only one rapping position to be energized at any one time to minimize dust re-entrainment. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All fields shall be operated at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Secondary voltage limit settings shall be maintained between 40 and 80 kilovolts at each cell. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Secondary current (amperage) limit settings shall be maintained between 0.05 and 1.40 amps at cell #1, 0.2 and 1.40 amps at cell #2, and 0.4 and 1.40 amps at cell #3. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Records shall be maintained on the quality and accuracy of all instruments used to verify compliance with the terms and conditions of the Permit to Operate and District regulations. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Data from all monitors shall be submitted quarterly to the District. Malfunctions in the monitoring equipment shall be reported to the District. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
10. Source testing shall be required annually or as often as deemed necessary by the Air Pollution Control District. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Source testing to measure particulate matter including condensibles and particulate matter not including condensibles, shall be conducted using EPA Methods 5 and 8, and in accordance with Rule 1081, section 6.0 (12/16/93). [District Rule 1081; PSD SJ 76-44] Federally Enforceable Through Title V Permit
12. Each cell voltage and current (amperage) shall be checked and recorded on a daily basis. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-6-6

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

ASH COLLECTION SYSTEM CONSISTING OF ENCLOSED DRY ASH CONVEYORS COLLECTING DRY ASH FROM THE BOILER, AIR HEATER, AND AIR POLLUTION CONTROL SYSTEM; ONE (1) ENCLOSED DRY ASH ELEVATOR; ONE (1) 4,000 FT³ DRY ASH STORAGE SILO SERVED BY A FLEX-KLEEN MODEL 84 BUBS 9LLG BAGHOUSE; ONE (1) WET ASH UNLOADING SYSTEM WITH A WET PUG MILL; ONE (1) DRY ASH UNLOADING SYSTEM WITH A SLY XP DUST-FREE LOADING SPOUT SERVED BY A DISA MODEL RJCA BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Fugitive emissions from all ash transfer points shall be controlled to prevent excessive dust during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Visible emissions from baghouses serving the dry ash silo loading and unloading operations shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouses serving the dry ash silo loading and unloading operations shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. A spare set of bags for each baghouse serving the dry ash silo loading and unloading operations shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Each baghouse serving the dry ash silo loading and unloading operations 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
8. Every time the baghouse operates, the differential pressure gauge reading shall be in the range of 0 to 6 inches of water column. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Dust collector filters shall be inspected quarterly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected quarterly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Visible emissions from all ash transfer points shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The maximum combined daily quantity of dry ash and wet ash (on a dry basis) unloaded from the dry ash storage silo shall not exceed 200 ton-dry ash/day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. For the wet ash unloading process, compliance with the dry ash maximum daily unloading throughput limit shall be demonstrated utilizing the following calculation: [equivalent quantity of dry ash unloaded from the storage silo (ton-dry ash /day)] = [quantity of wet ash unloaded from the silo (lb-wet ash unloaded/day)] x [1 - wet ash moisture content (lb-water / lb-wet ash)]. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Moisture content of wet ash unloaded from the dry ash storage silo shall be maintain above 10% or greater, by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The percent moisture of wet ash unloaded from the dry ash storage silo shall be determined by weighing an approximately 2-lb sample of wet ash, bringing the sample to dryness in a drying oven, then weighing the dried sample; the weight difference is the moisture content. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Moisture content of wet ash unloaded from the dry ash storage silo shall be measured on monthly basis and when requested by the District. [District Rule 2201] Federally Enforceable Through Title V Permit
17. PM10 emissions from the baghouse serving the dry ash storage silo loading system shall not exceed 0.0072 lb/ton of dry ash loaded in the silo. [District Rule 2201] Federally Enforceable Through Title V Permit
18. PM10 emissions from the baghouse serving the dry ash unloading system shall not exceed 0.02 lb/ton of dry ash loaded in truck. [District Rule 2201] Federally Enforceable Through Title V Permit
19. PM10 emissions during the truck closing process, after truck is loaded with dry ash, shall not exceed 0.037 lb/ton of dry ash loaded in truck. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Daily records of the total quantity of dry ash, wet ash, and total dry ash calculated as the sum of dry ash and wet ash (on a dry ash basis), unloaded from the dry ash storage silo shall be maintained, retained on-site for a period of at least five (5) years and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
21. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. Record of monthly moisture content of the wet ash unloaded from the dry ash storage silo shall be maintained, retained on-site for a period of at least five (5) 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-1820-8-3

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:
COOLING TOWER FOR ELECTRIC POWER PRODUCTION

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
2. No hexavalent chromium containing compounds shall be added to the water that is circulating through the cooling tower or will circulate through the cooling tower. [District Rule 7012] Federally Enforceable Through Title V Permit
3. The operator shall maintain records of all circulating water tests performed. Records shall be maintained for at least 5 years and shall be made available to the District upon request. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-11-1

EXPIRATION DATE: 11/30/2014

EQUIPMENT DESCRIPTION:

SAND AND LIMESTONE RECEIVING AND STORAGE OPERATION INCLUDING ONE PNEUMATICALLY-FILLED 120-TON STORAGE SILO WITH FABRIC DUST COLLECTOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Visible emissions shall not exceed 1/4 Ringelmann or equivalent 5% opacity. [District Rule 4101]
3. Sand and limestone shall not be transferred into silo unless fabric filter baghouse is operating and functioning properly. [District Rule 1070]
4. Collected fines shall be returned to sand and limestone system. [District Rule 1070]
5. Sand and limestone receiving shall not exceed 48 hr/month. [District Rule 1070]
6. Silo fabric filter baghouse particulate matter (PM-10) emission rate shall not exceed 0.141 lb/hr and 0.02 gr/scf. [District Rule 4201, 4202]
7. Fabric filter baghouse shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 1070]
8. Fabric filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 1070]
9. The records of hours of operation of sand and limestone receiving system shall be maintained on a monthly basis. [District Rule 1070]
10. Records of fabric filter baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 1070]
11. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

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

ATTACHMENT C

Detailed Facility List

Detailed Facility Report

For Facility=1820

9/2/15
8:35 am

Sorted by Facility Name and Permit Number

RIO BRAVO FRESNO 3350 S WILLOW AVE FRESNO, CA 93725	FAC # C-1820	TYPE: TitleV	EXP. DATE: 11/30/2014
STATUS: A	TOXIC ID: 40233	AREA: 7 /	
TELEPHONE: 5592644575		INSP. DATE: 06/16	

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-1820-1-28	28,500 kW	3020-08A F	1	8,564.00	8,564.00	A	352 MMBTU/HR CIRCULATING FLUIDIZED-BED BIOMASS COMBUSTOR USED TO PRODUCE STEAM FOR ELECTRICAL POWER GENERATION (28.5 MW), WITH ONE COOLING TOWER, ONE AIR PREHEATER, ONE BARETUBE ECONOMIZER, AND TWO 900 AND ONE 700 HP FANS
C-1820-2-6	electrical generating component	999-99	1	0.00	0.00	A	BIOMASS FUEL RECEIVING AND UNLOADING OPERATION CONSISTING OF TWO 10'X70' TILTING LIFT PLATFORMS WITH TELESCOPING HYDRAULIC CYLINDERS FOR DUMPING INTO A RECEIVING HOPPER OF 5000 CU.FT CAPACITY. RATING: 365 HP.
C-1820-3-4	electrical generating component	999-99	1	0.00	0.00	A	FUEL HANDLING SYSTEM CONSISTING OF COLLECTING BELT CONVEYOR, STACKER CONVEYOR, STORAGE, OVERPILE AND UNDERPILE RECLAIMERS, RECLAIM TRANSFER (CHAIN & BELT CONVEYOR, SELF CLEANING MAGNET, SCREEN CONVEYOR, SHREDDER, FEED CONVEYOR & BIN). RATING: 295 HP
C-1820-4-3	electrical generating component	999-99	1	0.00	0.00	A	ONE MULTICLONE MECHANICAL DUST COLLECTOR.
C-1820-5-12	electrical generating component	999-99	1	0.00	0.00	A	ONE 238 KVA RESEARCH CONTREL ELECTROSTATIC PRECIPITATOR EXHAUSTING TO ONE 147 FEET HIGH BY 8 FEET DIAMETER CARBON STEEL STACK
C-1820-6-6	electrical generating component	999-99	1	0.00	0.00	A	ASH COLLECTION SYSTEM CONSISTING OF ENCLOSED DRY ASH CONVEYORS COLLECTING DRY ASH FROM THE BOILER, AIR HEATER, AND AIR POLLUTION CONTROL SYSTEM; ONE (1) ENCLOSED DRY ASH ELEVATOR; ONE (1) 4,000 FT3 DRY ASH STORAGE SILO SERVED BY A FLEX-KLEEN MODEL 84 BUBS 9LLG BAGHOUSE; ONE (1) WET ASH UNLOADING SYSTEM WITH A WET PUG MILL; ONE (1) DRY ASH UNLOADING SYSTEM WITH A SLY XP DUST-FREE LOADING SPOUT SERVED BY A DISA MODEL RJCA BAGHOUSE
C-1820-7-0	12,000 GAL EXXON THERMAL DENOX	3020-05 B	1	98.00	98.00	D	EXXON THERMAL DENOX SYSTEM FOR BIOMASS COMBUSTOR. ONE 12,000 GALLON AMMONIA STORAGE TANK; NH3 SUPPLY SYSTEM (ELECTRIC VAPORIZER); AIR SUPPLY SYSTEM; INJECTION NOZZLE SYSTEM AND PROCESS CONTROL SYSTEM. RATING: 12,000 GALLONS.
C-1820-8-3	electrical generating component	999-99	1	0.00	0.00	A	COOLING TOWER FOR ELECTRIC POWER PRODUCTION
C-1820-11-1	electrical generating component	999-99	1	0.00	0.00	A	SAND AND LIMESTONE RECEIVING AND STORAGE OPERATION INCLUDING ONE PNEUMATICALLY-FILLED 120-TON STORAGE SILO WITH FABRIC DUST COLLECTOR

Number of Facilities Reported: 1