



JUL 26 2010

Kent Duysen  
Sierra Power Corporation  
PO Box 10060  
Terra Bella, CA 93270-0060

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # S-834  
Project # S-1075518**

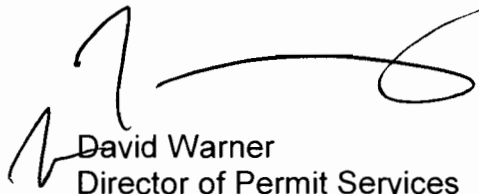
Dear Mr. Duysen:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Sierra Power Corporation for its cogeneration plant at 9000 Road 234, Terra Bella, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,



David Warner  
Director of Permit Services

Attachments  
C: Juscelino Siongco, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
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**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



JUL 26 2010

Mike Tollstrup, Chief  
Project Assessment Branch  
Air Resources Board  
P O Box 2815  
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # S-834  
Project # S-1075518**

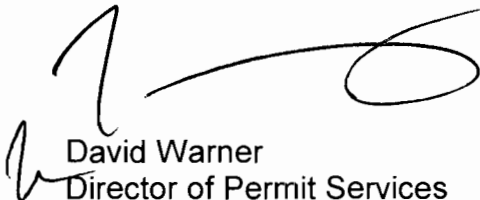
Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Sierra Power Corporation for its cogeneration plant at 9000 Road 234, Terra Bella, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

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JUL 26 2010

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St.  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision – Title V Permit Renewal  
District Facility # S-834  
Project # S-1075518**

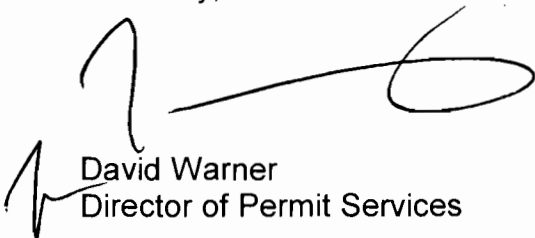
Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Sierra Power Corporation for its cogeneration plant at 9000 Road 234, Terra Bella, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

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

Sincerely,



David Warner  
Director of Permit Services

Attachments

C: Juscelino Siongco, Permit Services Engineer

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Visalia Times-Delta

**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED RENEWAL OF  
THE FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Sierra Power Corporation for its cogeneration plant at 9000 Road 234, Terra Bella, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1075518, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested by the public, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed renewed permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

# SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation  
Sierra Power Corporation  
S-834

## TABLE OF CONTENTS

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I.	PROPOSAL.....	2
II.	FACILITY LOCATION .....	2
III.	EQUIPMENT LISTING .....	3
IV.	GENERAL PERMIT TEMPLATE USAGE .....	3
V.	SCOPE OF EPA AND PUBLIC REVIEW .....	3
VI.	FEDERALLY ENFORCEABLE REQUIREMENTS .....	3
VII.	REQUIREMENTS NOT FEDERALLY ENFORCEABLE.....	5
VIII.	PERMIT REQUIREMENTS .....	6
IX.	PERMIT SHIELD.....	16
X.	PERMIT CONDITIONS .....	17
XI.	ATTACHMENTS.....	17
A.	DRAFT RENEWED TITLE V OPERATING PERMIT	
B.	PREVIOUS TITLE V OPERATING PERMIT	
C.	DISTRICT RULE 4306 STRINGENCY ANALYSIS	
D.	DETAILED FACILITY LIST	

# TITLE V PERMIT RENEWAL EVALUATION

## Electric Services

**Engineer:** Juscelino Siongco  
**Date:** July 22, 2010

**Facility Number:** S-834  
**Facility Name:** Sierra Power Corporation  
**Mailing Address:** PO Box 10060  
Terra Bella, CA 93270

**Contact Name:** Rich Wilson  
**Phone:** (661) 326-1112

**Responsible Official:** Kent Duysen  
**Title:** President

**Project # :** S-1075518  
**Deemed Complete:** December 26, 2007

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### I. PROPOSAL

Sierra Power Corporation was issued a Title V permit on July 31, 2003. 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 initial Title V permit.

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

### II. FACILITY LOCATION

Sierra Power Corporation is located at 9000 Road 234, Terra Bella, in Tulare County.

### III. EQUIPMENT LISTING

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

### IV. GENERAL PERMIT TEMPLATE USAGE

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

### V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

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

### VI. FEDERALLY ENFORCEABLE REQUIREMENTS

#### A. Rules Updated

- District Rule 2020, Exemptions  
(amended July 21, 1994 ⇒ amended February 19, 2002)
- District Rule 2201, New and Modified Stationary Source Review Rule  
(amended December 18, 2008)
- District Rule 4101, Visible Emissions  
(amended December 17, 1992 ⇒ amended February 17, 2005)
- District Rule 4306, Boilers, Steam Generators, Process Heaters  
(amended March 17, 2005 ⇒ amended October 16, 2008)

- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators and Process Heaters  
(amended October 19, 1995 ⇒ amended May 18, 2006)
- District Rule 4601, Architectural Coatings  
(amended October 31, 2001 ⇒ December 17, 2009)
- District Rule 8011, General Requirements  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8031, Bulk Materials  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8041, Carryout and Trackout  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8051, Open Areas  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads  
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas  
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units  
(amended January 28, 2009)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos  
(amended September 18, 2003)
- 40 CFR Part 82, Subpart B, Stratospheric Ozone  
(amended November 9, 2007)
- 40 CFR Part 82, Subpart F, Stratospheric Ozone  
(amended June 8, 2008)



## **B. Rules Not Updated**

- 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 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 May 21, 1992)
- District Rule 4305, Boilers, Steam Generators, Process Heaters (amended December 19, 2002 ⇒ amended August 21, 2003)
- District Rule 4351, Boilers, Steam Generators, Process Heaters (amended August 21, 2003)
- 40 CFR Part 64, Compliance Assurance Monitoring

## **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:

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

- Condition 42 of permit unit S-834-0-2 is based on District Rule 4102 and will therefore not be discussed any further.

## VIII. PERMIT REQUIREMENTS

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

### A. District Rule 2020–Exemptions

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

### 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 4101–Visible Emissions**

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 22 of permit unit -0-2 ensures compliance.

**D. District Rule 4306–Boilers, Steam Generators, and Process Heaters – Phase 3**

This rule applies to any boiler, steam generator or process heater, with a rated heat input greater than 5 million Btu per hour that is fired with gaseous and/or liquid fuels.

The rule was amended in October 16, 2008 but had not been SIP approved. The stringency analysis in Attachment C shows that the amended rule is as stringent as the SIP approved version of the rule (September 18, 2003)

The following permit requirements were added to ensure compliance with this rule:

1. S-834-7-6 – 32 MMBtu/hr Natural Gas-Fired Boiler

- Conditions 5 through 10, 16, 17, and 21 through 27 assure compliance with the requirements of this rule.

2. S-834-9-3 – Dormant 33.6 MMBtu/hr Natural Gas-Fired Hurst Boiler

- Condition 2 from the PTO was revised to add reference to Rule 4306 to assure compliance with the requirements of this rule.

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

This rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from solid fuel fired boilers, steam generators and process heaters. The rule applies to any boiler, steam generator or process heater fired on solid fuel.

- The applicability section was modified to delete the reference to major NO<sub>x</sub> source definition so the rule now applies to any source that operate solid fired units.
- Except for the recordkeeping requirement in Section 6.2 and applicable compliance schedule in Section 7.0, units operated at a stationary source with a potential to emit less than 10 tons per year of NO<sub>x</sub> or VOC would be exempted from the rule.
- Provisions were added that allow a longer start-up or shutdown duration provided the operator could meet certain conditions and the APCO, ARB, and EPA approve the request.
- The existing requirement to retain records for two years would be changed to five years consistent with EPA's recordkeeping policy and such records would need to be made available to the APCO, ARB, and EPA upon request.
- Source testing requirement was clarified so that source testing of each unit would be performed at least once every 12 months to demonstrate compliance with the emission limits.
- Rule requirements was amended to implement all feasible control measures. The following table identifies the new NO<sub>x</sub> and CO limits.

Fuel Type	NO <sub>x</sub> Limit	CO Limit
Municipal Solid Waste	200 ppmv corrected to 12% CO <sub>2</sub>	400 ppmv corrected to 3% O <sub>2</sub> ,
Biomass using Multiple Hearth Furnace	115 ppmv corrected to 3% O <sub>2</sub>	
All Others	115 ppmv corrected to 3% O <sub>2</sub>	

The following permit requirements ensure compliance with this rule:

1. S-834-3-6 – 9.4 MW Cogeneration System

- Conditions 4, 5, 8, 9, 10, 14, and 18 assure compliance with the requirements of this rule.

**F. 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). The rule was amended in December 17, 2009. Since Conditions 23, 24, and 25 of permit unit -0-2 ensures compliance.

The current rule differs significantly from the previously SIP approved 9/17/97 version. The following changes included in the latest rule amendment did not result in adding new requirements and/or revising current requirements in the facility-wide permit, no further evaluation is needed.

**Section 2.0 – Applicability**

The phrase “blends or repackages” was added to rule language to extend the applicability of rule language to facilities involved in those activities.

**Section 3.0 – Definitions**

Numerous definitions was added, deleted or modified in order to make the amended rule harmonize with definitions and rule requirements presented in the California Air Resources Board (ARB) Suggested Control Measures (SCM).

**Section 4.0 – Exemptions**

A reporting requirement was added for any architectural coating that is sold in a container with a volume of one liter or less. The exemption for architectural coatings was further defined by adding “coatings that are supplied and offered for sale” to current language, in order to make the rule consistent with the ARB SCM.

**Section 5.0 – Requirements**

The amended rule implements the recommended VOC limits per the ARB SCM. The following changes were as follows: 15 coating categories were eliminated, ten were added, nineteen coatings categories remained unchanged, and the VOC content limits for 19 categories were lowered.

## Section 6.0 – Administrative Requirements

### Section 6.1 – Labeling Requirements

Labeling requirements were updated to add new labeling standards consistent with new coatings categories per the SCM.

### Section 6.2 – Reporting Requirements

A new section was added to include reporting requirements per the SCM. The SCM contains a new requirement to submit sales data. Collection of this data is authorized in the California Health and Safety Code which requires submission of data to estimate emissions.

### Section 6.3 – Test Methods

New sections were added to coincide with new coating categories pursuant to the ARB SCM.

### Section 7.0 – Compliance Schedule

This section was updated to account for the new amendments to rule language by adding the phrase “the dates specified within the text of the rule.”

### Section 8.0 – Averaging Compliance Option

This section was deleted in its entirety.

The following permit requirements were added and/or revised to ensure compliance with this rule:

#### 1. S-834-0-2 – Facility-Wide Requirements

- Conditions 23, 24, and 25 ensure compliance with the revised requirements of this rule.

## **G. District Rule 8011–General Requirements**

The purpose of Regulation VIII (Fugitive PM10 Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM10) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM10 Nonattainment Areas. The rules are applicable to specified anthropogenic fugitive dust sources. Fugitive dust contains PM10 and particles larger than PM10. Controlling fugitive dust missions when visible emissions are detected will not prevent all PM10 emissions, but will substantially reduce PM10 emissions.

The provisions of this rule are applicable to specified outdoor fugitive dust sources. The definitions, exemptions, requirements, administrative requirements, recordkeeping requirements, and test methods set forth in this rule are applicable to all Rules under Regulation VIII (Fugitive PM10 Prohibitions) of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District.

1. S-834-0-2 – Facility-Wide Requirements

- Conditions 29 through 34 ensure compliance with the requirements of this rule.

**H. District Rule 8021–Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities**

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.

This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfilling activities.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 29 ensures compliance with the requirements of this rule.

**I. District Rule 8031–Bulk Materials**

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.

This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit VDE to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 30 ensures compliance with the requirements of this rule.

**J. District Rule 8041–Carryout and Trackout**

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout.

This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that an owner/operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 31 ensures compliance with the requirements of this rule.

**K. District Rule 8051–Open Areas**

The purpose of this rule is to limit fugitive dust emissions from open areas.

This rule applies to any open area having 3.0 acres or more of disturbed surface area, that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.



Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner/operator shall implement one or a combination of control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 32 ensures compliance with the requirements of this rule.

**L. District Rule 8061–Paved and Unpaved Roads**

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.

This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 33 ensures compliance with the requirements of this rule.

**M. District Rule 8071–Unpaved Vehicle/Equipment Traffic Area**

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas by implementing control measures and design criteria.

This rule applies to any unpaved vehicle/equipment traffic area of 1.0 acre or larger.

1. S-834-0-2 – Facility-Wide Requirements

- Condition 34 ensures compliance with the requirements of this rule.

**N. 40 CFR Part 60 Subpart Db–Standard of Performance for Industrial-Commercial-Institutional Steam Generating Units**

Subpart Db applies to each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 100 MMBtu/hr.

This subpart was amended in January 28, 2009 to add compliance alternatives for owners/operators of certain affected sources, to eliminate the opacity standard for certain facilities voluntarily using PM CEMS, and to correct technical and editorial errors.

1. S-834-3-6 – 9.4 MW Cogeneration System

- Conditions 4, 5, 9, 10, 11, 18, and 23 through 30 assure compliance with the requirements of this rule.

**O. 40 CFR Part 64, Compliance Assurance Monitoring**

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

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

1. S-834-1-3 – Fuel Screening and Handling System

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.

2. S-834-3-6 – 9.4 MW Cogeneration System

This permit unit has emissions limits for SO<sub>x</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for SO<sub>x</sub>, CO, and VOC.

This permit is subject to CAM for Opacity, NO<sub>x</sub> and PM<sub>10</sub>. This permit unit is complies with CAM for Opacity and NO<sub>x</sub> with the use of an opacity monitor and a continuous emission monitoring (CEM) for NO<sub>x</sub>.

Compliance with CAM for PM<sub>10</sub> will be through the establishment of an acceptable range of primary and secondary current and voltage readings for the electrostatic precipitator (ESP) during each annual PM<sub>10</sub> source testing and comparing the daily monitoring of the ESP voltage and current with the established acceptable range.

- Conditions 4 and 32 through 36 assure compliance with the requirements of this rule.

3. S-834-6-3 – Ash Collection System

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.

4. S-834-7-6 – 32 MMBtu/hr Natural Gas-Fired Boiler

This permit unit has emissions limits for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

This permit may be subject to CAM for NO<sub>x</sub> since there is a NO<sub>x</sub> limit, and it has add-on controls in the form of FGR. However, the pre-control NO<sub>x</sub> potential to emit is less than the major source threshold of 50,000 pounds NO<sub>x</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The natural gas controlled-low NO<sub>x</sub> emission factor is 50 lb/MMscf or 0.049 lb/MMBtu (AP-42, 1.4-5, July 1998). The maximum rating for this unit is 32 MMBtu/hr.

$$32 \text{ MMBtu/hr} \times 0.049 \text{ lb NO}_x/\text{MMBtu} \times 8760 \text{ hrs/year} = 13,735 \text{ lbs NO}_x/\text{year}$$

5. S-834-9-3 – 33.6 MMBtu/hr Natural Gas-Fired Boiler

This permit unit has emissions limits for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

This permit may be subject to CAM for NO<sub>x</sub> since there is a NO<sub>x</sub> limit, and it has add-on controls in the form of FGR. However, the pre-control NO<sub>x</sub> potential to emit is less than the major source threshold of 50,000 pounds NO<sub>x</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The natural gas controlled-low NO<sub>x</sub> emission factor is 50 lb/MMscf or 0.049 lb/MMBtu (AP-42, 1.4-5, July 1998). The maximum rating for this unit is 33.6 MMBtu/hr.

$$33.6 \text{ MMBtu/hr} \times 0.049 \text{ lb NO}_x/\text{MMBtu} \times 8760 \text{ hrs/year} = 14,422 \text{ lbs NO}_x/\text{year}$$

6. S-834-10-2 – Fuel Handling System

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.

**P. 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos**

These regulations apply to demolition or renovation activity, as defined in 40 CFR 61.141. 40 CFR Section 61.150 of this Subpart was amended September 18, 2003, and condition 35 of S-834-0-2 assures compliance with the requirements.

**Q. 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 2007 and 2008, and conditions 27 and 28 of S-834-0-2 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 does not propose to use any model general permit templates.

**B. Obsolete Permit Shields From Existing Permit Requirements**

Obsolete permit shields on existing permit units have been removed because of newer rule adoption or amendments to an existing rule. The existing permit shield was granted under a previous version of a rule, and that permit shield is no longer valid and must be removed from the permit requirements. The following table provides details on which obsolete permit shields were removed.

Permit Unit	Condition Number
S-834-7-4	18 (Rules 4305 and 4351)
S-834-7-4	19

**X. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

**XI. ATTACHMENTS**

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. District Rule 4306 Stingency Analysis
- D. Detailed Facility List

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-834-0-2

EXPIRATION DATE: 02/29/2008

## 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; Tulare County Rule 111] 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; Tulare County Rule 111] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: SIERRA POWER CORPORATION  
Location: 9000 ROAD 234, TERRA BELLA, CA  
S-834-0-2 : Jul 22 2010 10:31AM - SIONGCOJ

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

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



22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

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

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Tulare County Rule 111. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/1709); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 31 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520]
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 when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-834-1-3

EXPIRATION DATE: 02/29/2008

**EQUIPMENT DESCRIPTION:**

FUEL SCREENING AND HANDLING SYSTEM SERVED BY A HUMIDIFIER FOGGER/SPRAY SYSTEM

## PERMIT UNIT REQUIREMENTS

1. Fuel screening system shall consist of a Trommel screen, hopper, five (5) conveyors, and a humidifier-fogger/spray system to control emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from fuel receiving shall be controlled by humidifier-fogger system and wind dust screen. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Whenever fuel receiving system is in operation, humidifier-fogger spray system shall be operated as necessary to maintain the moisture content of the biofuel at 20% or greater and shall be used to cover all exposed drop off points, screens, conveyors & other emissions points. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
5. Visible emissions shall be inspected quarterly under material and environmental conditions, where high emissions are expected. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 48 hours, a visible emissions test using EPA Method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 1070 and Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Permittee shall maintain weekly records of the moisture content of the fuel. Such records shall be kept at the facility and made available for District inspection upon request for a period of 5 years. [District Rule 1070 and 2520, 9.3.2, 9.4.2] Federally Enforceable Through Title V Permit
7. Records of types of fuel materials handled on a daily basis shall be maintained, retained on the premises for at least five years, and provided to the District upon request. [District Rules 1070 and 2520, 9.3.2, 9.4.2] Federally Enforceable Through Title V Permit
8. Fuel moisture content shall be checked daily, from representative fuel samples using method ASTM E871. [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: S-834-3-6

EXPIRATION DATE: 02/29/2008

## EQUIPMENT DESCRIPTION:

9.4 MW COGENERATION SYSTEM WITH 171.2 MMBTU/HR STAGED AIR BIOMASS-FIRED BOILER WITH FIRED HEAT RECOVERY STEAM GENERATOR WITH PEABODY LOW-NOX NATURAL GAS-FIRED BURNERS, FLUE GAS RECIRCULATION, AND AMMONIA INJECTION SYSTEM, EXHAUSTING TO MULTICLONES AND ELECTROSTATIC PRECIPITATOR

## PERMIT UNIT REQUIREMENTS

1. Boiler and heat recovery steam generator exhausts shall vent through multicyclones and electrostatic precipitator (ESP) before being discharged to atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. ESP shall be equipped with automatic rapping system, induced draft exhaust fan, and 72' high by 61" diameter exhaust stack. [District NSR Rule] Federally Enforceable Through Title V Permit
3. ESP rapping frequency and duration shall be pre-programmed and identical for each location and only one rapping position shall be energized at any one time. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Exhaust stack shall be equipped with continuous emissions monitors (CEM) for NO<sub>x</sub>, CO, oxygen, opacity, and volumetric flowrate of exhaust. [District NSR Rule and Rule 4352, 5.5; 40 CFR 60.48b(b); 40 CFR 64] Federally Enforceable Through Title V Permit
5. Continuous emission monitoring system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [District Rules 1080 and Rule 4352, 5.5; 40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
6. Fuels for combustor shall be limited to natural gas, sawmill/forest residue (consisting of sawdust, bark, chips, shavings, and clean dry construction wood waste), almond and walnut shells, peach and olive pits, vineyard prunings, and orchard prunings or chips. [District NSR Rule] Federally Enforceable Through Title V Permit
7. No plastic, rubber, tar paper, asphalt shingles, plaster, metals, painted or chemically treated wood products or wastes shall be burned in combustor. [District NSR Rule] Federally Enforceable Through Title V Permit
8. A daily record of the quantities and types of fuels burned in the combustor shall be maintained and submitted to the District quarterly. [District NSR Rule and Rule 4352, 6.2] Federally Enforceable Through Title V Permit
9. Nitrogen oxide emissions (as NO<sub>2</sub>) shall not exceed any of the following: 84 ppmvd @ 3% O<sub>2</sub> (0.108 lb/MMBtu), 408.8 lb/day, or 67.6 tons/year. The averaging for NO<sub>x</sub> lb/MMBtu limit shall be a 24-hr period between 12:00 am midnight to the following midnight. [District NSR Rule, Rules 4301, 5.2.2, 4352, 5.1 and 40 CFR 60.41b and 60.44b(d)] Federally Enforceable Through Title V Permit
10. Carbon monoxide emissions shall not exceed any of the following: 400 ppmvd @ 3% O<sub>2</sub> (0.314 lb/MMBtu) or 233.11 tons/year. The averaging for CO ppm limit shall be a 24-hr period between 12:00 am midnight to the following midnight. [District NSR Rules, District Rule 4352, 5.3 and 40 CFR 60 Subpart Db] Federally Enforceable Through Title V Permit
11. Particulate matter (PM<sub>10</sub>) concentration shall not exceed 0.016 gr/dscf corrected to 12% CO<sub>2</sub> as determined by CARB Method 5. [District NSR Rule and Rule 4301, 5.1 and 5.2.3; 40 CFR 60.43b(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Volatile organic compound emissions shall not exceed any of the following: 0.066 lb/MMBtu or 48.8 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Sulfur oxide emissions (as SO<sub>2</sub>) shall not exceed any of the following: 0.061 lb/MMBtu or 41.6 tons/year. [District NSR Rule and Rule 4301, 5.2.1 and 4801] Federally Enforceable Through Title V Permit
14. Source testing using the following test methods shall be done annually: NO<sub>x</sub> - EPA Method 7E or ARB Method 100, and EPA Method 19, CO - EPA Method 10 or ARB Method 100, O<sub>2</sub> - EPA Method 3 or 3A, or ARB Method 100, Stack Gas Flow Rate (velocity) - EPA Method 2, Stack Gas Moisture Content - EPA Method 4, and Fuel Heating Value - ASTM Method D2015 or E711. [District Rules 1081, 2520, 9.3.2 and 4352, 6.3] Federally Enforceable Through Title V Permit
15. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Sierra Power Corporation shall maintain records of emissions and operational data for NO<sub>x</sub> (ppmv @ 3% O<sub>2</sub>, lb/MMBtu, lb/day and lb/year), CO (ppmv @ 3% O<sub>2</sub> and lb/year), electrical output (kW-hr) recorded on a 24-hour basis, exhaust gas stack flow, CFM), and opacity (percent). [District NSR Rule] Federally Enforceable Through Title V Permit
18. NO<sub>x</sub>, CO, and PM<sub>10</sub> emissions shall be measured with annual source testing conducted by an independent testing laboratory using sample collection by an ARB certified testing laboratory and shall be witnessed by District, or witness authorized by the District. [District Rules 1081, 2520, 9.3.2 and 4352, 6.3 and 6.4; 40 CFR 60.46b] Federally Enforceable Through Title V Permit
19. Source test emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(Amended December 16, 1993), of three thirty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
21. NO<sub>x</sub> and carbon monoxide daily emissions shall be measured by use of CEM data, fuel rate data and daily hours of operation data. A written record of the required compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit
22. SO<sub>x</sub> source testing shall be done annually using EPA method 5 or 8 or a continuous emissions analyzer in accordance with EPA method 6C. [District Rules 1081, 2520, 9.3.2, and 4801] Federally Enforceable Through Title V Permit
23. Particulate matter emissions shall not exceed 0.10 lb/MMBtu. [40 CFR 60.43b(c)(1)] Federally Enforceable Through Title V Permit
24. Owner or operator shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)] Federally Enforceable Through Title V Permit
25. The particulate matter, and opacity standards shall apply at all times, except during periods of startup, shutdown or malfunction. [40 CFR 60.43b(g), 60.46b(a)] Federally Enforceable Through Title V Permit
26. The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system, [40 CFR 60.48b(a)] Federally Enforceable Through Title V Permit
27. The continuous emissions monitoring systems shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

28. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The span value for a continuous monitoring system for measuring opacity shall be between 60 and 80 percent. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
29. The permittee shall record and maintain records of the amount of wood and natural gas fuel combusted each day, and calculate the annual capacity factor individually for wood and natural gas on a 12-month rolling average with a capacity factor calculated at the end of each month. [40 CFR 60.49b (d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall submit excess emission reports of all 6-minute periods during which the average opacity exceeds the opacity standards under 40 CFR 60.43b(f) during the reporting period. [40 CFR 60.49b(h)] Federally Enforceable Through Title V Permit
31. At the time of each annual source test for PM, the permittee shall establish the acceptable range of primary and secondary current and voltage readings for the electrostatic precipitator. Minimum readings for each parameter shall be established at 15% below the average value measured during the PM source test. Maximum readings for each parameter shall be established at 15% above the average value measured during the PM source test. [40 CFR part 64] Federally Enforceable Through Title V Permit
32. During each day of operation, the permittee shall record electrostatic precipitator voltage and current readings and compare the readings with the acceptable range of current and voltage levels established during the most recent annual PM source test. Upon detecting any excursion from the acceptable range of current or voltage readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR part 64] Federally Enforceable Through Title V Permit
33. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR part 64] Federally Enforceable Through Title V Permit
34. 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
35. 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
36. 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

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: S-834-6-3

EXPIRATION DATE: 02/29/2008

**EQUIPMENT DESCRIPTION:**

ASH COLLECTION SYSTEM UTILIZING ENCLOSED AUGERS AND WATER MIST SERVING BIOFUEL BOILER (S-834-3)

## PERMIT UNIT REQUIREMENTS

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1. Discharge point of ash system shall be controlled by water spray to prevent visible emissions of 20% opacity or greater. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Visible emissions shall be inspected quarterly under material and environmental conditions, where high emissions are expected. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 48 hours, a visible emissions test using EPA Method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 1070 and 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: S-834-7-6

EXPIRATION DATE: 02/29/2008

SECTION: SW03 TOWNSHIP: 23S RANGE: 27E

## EQUIPMENT DESCRIPTION:

32 MMBTU/HR ZERN (S/N 99853) NATURAL GAS-FIRED BOILER WITH A ZERN MODEL SAGC LOW NOX BURNER AND FLUE GAS RECIRCULATION - STANDBY SERVICE FOR BOILER S-834-3

## PERMIT UNIT REQUIREMENTS

1. This boiler shall only be operated as a standby unit, when boiler S-834-3 is not operated. [District NSR Rule] Federally Enforceable Through Title V Permit
2. During normal operation, flue gas recirculation system shall be in operation at all times when boiler is firing. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Boiler firebox, convection section, and flue gas ductwork shall be gas-tight, with no detectable leaks. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Only natural gas purchased from a PUC regulated utility shall be used as fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Emission rates shall not exceed the following: PM10: 0.014 lb/MMBtu, NOx: 30 ppmv @ 3% O2, VOC: 0.003 lb/MMBtu and CO: 100 ppmv @ 3% O2. [District NSR Rule, 4301, 4305, and 4306] Federally Enforceable Through Title V Permit
6. Temperature readings of exhaust stack, windbox, and ambient air shall be recorded at 40%, 70% and 95% of firing rate, as recommended by manufacturer, to establish required FGR recirculation rate at these levels while demonstrating compliance with NOx and CO emission rates. [District NSR Rule, Rules 1081, 4305, and 4306] Federally Enforceable Through Title V Permit
7. The acceptable FGR rate shall be the minimum rate with which compliance with applicable NOx and CO emissions limits has been demonstrated through source testing at a similar firing rate. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
8. The FGR rate shall be determined at least on a weekly basis by measuring the stack temperature (Ts), windbox temperature (Tw), and ambient temperature (Ta), and using the following equation:  $FGR\ rate = \{(Tw - Ta)/(Ts - Ta)\} \times 100\%$ . [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
9. If the FGR rate is less than the acceptable level, the permittee shall notify the District and take corrective action within one (1) hour after detection. If the FGR rate is not corrected promptly, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the lower FGR rate. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the date and time of temperature measurements, the measured temperatures, boiler firing rate, and the calculated FGR rate. The records shall also include a description of any corrective action taken to maintain the FGR rate above the minimum acceptable rate. These records shall be retained at the facility for a period of no less than 5 years and shall be made available for District inspection upon request. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



11. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(Amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
13. {588} Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
14. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub>. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit
15. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. When this unit has been operated for 720 hours in a 12 month period, source testing shall be performed for NO<sub>x</sub> (ppmv) according to EPA Method 7E (or ARB Method 100), stack gas oxygen by EPA Method 3 or 3A (or ARB Method 100), and NO<sub>x</sub> emission rate (heat input basis) by EPA Method 19. If compliance is demonstrated on 2 consecutive annual tests, unit shall be tested not less than once every 36 months. [District Rule 4305, 6.2.2, 6.2.4-7, & 6.3.1 and 4351, 6.2.2 & 6.2.4-7, & 6.3; 4306] Federally Enforceable Through Title V Permit
17. Nitrogen oxide (NO<sub>x</sub>) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen and averaged over 60 minutes, and lb/MMBtu rates shall be calculated as lb NO<sub>2</sub>/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2, 4351, 8.1, and 4306] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended May 21, 1992). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> and CO emissions shall be measured with annual source testing conducted by an independent testing laboratory, sample collection by ARB certified testing laboratory and shall be witnessed by District, or witness authorized by the District. [District Rule 1081, and 4306] Federally Enforceable Through Title V Permit
20. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(Amended December 16, 1993), of three thirty-minute test runs for NO<sub>x</sub> and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District Rule 4306] Federally Enforceable Through Title V Permit
22. Maximum annual heat input of the unit shall not exceed 30 billion Btu per calendar year. [District Rule 4306] Federally Enforceable Through Title V Permit
23. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306] Federally Enforceable Through Title V Permit
24. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306] Federally Enforceable Through Title V Permit

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

25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4306] Federally Enforceable Through Title V Permit
26. Records of monthly and annual heat input of the unit shall be maintained. [District Rule 4306] Federally Enforceable Through Title V Permit
27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4305 and 4306] 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: S-834-9-3

EXPIRATION DATE: 02/29/2008

SECTION: SW03 TOWNSHIP: 23S RANGE: 27E

## EQUIPMENT DESCRIPTION:

DORMANT 33.6 MMBTU/HR NATURAL GAS FIRED HURST BOILER (MODEL S2-X 700-150) WITH INDUSTRIAL COMBUSTION BURNER (MODEL LNDG-336-P) AND FLUE GAS RECIRCULATION.

## PERMIT UNIT REQUIREMENTS

1. This unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520 section 9.0 for this permit unit. [District Rule 2520, Section 9.0] Federally Enforceable Through Title V Permit
2. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the applicable requirements of District Rule 4305 and 4306. [District NSR Rule, 4305 and 4306] Federally Enforceable Through Title V Permit
3. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in condition 5 below. [District NSR Rule] Federally Enforceable Through Title V Permit
4. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. The fuel supply line shall be physically disconnected from the emission unit. [District Rule 2080 and 4305] Federally Enforceable Through Title V Permit
6. This boiler shall only be operated as a standby unit, when fuel cogeneration system S-834-3 is not in operation. [District NSR Rule] Federally Enforceable Through Title V Permit
7. 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
8. Flue gas recirculation system shall be in operation at all times when boiler is firing. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Boiler firebox, convection section, and flue gas ductwork shall be gas-tight, with no detectable leaks. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Only natural gas purchased from a PUC regulated utility shall be used as fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Emission rates shall not exceed the following: PM10: 0.003 lb/MMBtu, SOx (as SO2): 0.001 lb/MMBtu, NOx (as NO2): 30 ppmv @ 3% O2 or 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu and CO: 47.0 ppmv or 0.035 lb/MMbtu. [District NSR Rule, 4201, 4301, and Rule 4305] 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. Annual source testing shall be performed for NOx (ppmv) according to EPA Method 7E (or ARB Method 100), stack gas oxygen by EPA Method 3 or 3A (or ARB Method 100), and NOx emission rate (heat input basis) by EPA Method 19. Gaseous fired units demonstrating compliance on 2 consecutive annual tests shall be tested not less than once every 36 months. Annual testing shall resume if any such test fails to show compliance. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
13. Source testing to demonstrate compliance with NOx and CO emission limits shall be conducted not less than once every 12 months if unit has been operated in previous 12 months, except as provided below. [District Rule 4305] Federally Enforceable Through Title V Permit
14. Source testing to demonstrate compliance with NOx and CO emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
15. If permittee fails any compliance demonstration for NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
16. Compliance demonstration (source testing) shall be by District witnessed or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
20. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rule and Rule 4305] Federally Enforceable Through Title V Permit
21. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NOx and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305] Federally Enforceable Through Title V Permit
22. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305] Federally Enforceable Through Title V Permit
23. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve setting is not returned to within the acceptable range within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District Rule 4305] Federally Enforceable Through Title V Permit
24. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility for a period of no less than 2 years and shall be made available for District inspection upon request. [District Rule 4305] Federally Enforceable Through Title V Permit
25. Formerly permit #S-1111-24-1.

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: S-834-10-2

EXPIRATION DATE: 02/29/2008

## EQUIPMENT DESCRIPTION:

FUEL HANDLING SYSTEM CONSISTING OF TWO SILOS, ONE HOG UNIT, SCREENS, AND CONVEYORS SERVED BY A HUMIDIFIER FOGGER SPRAY SYSTEM

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions from fuel handling system shall be controlled by humidifier-fogger spray system. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Whenever fuel handling system is in operation, humidifier-fogger spray system shall be operated as necessary to maintain the moisture content of the biofuel at 20% or greater and shall be used to cover all exposed drop off points, conveyors & other emissions points. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Visible emissions shall be inspected quarterly under material and environmental conditions where high emissions are expected. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 48 hours, a visible emissions test using EPA Method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 1070 and Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Records of types of fuel materials handled on a daily basis shall be maintained, retained on the premises for at least five years, and provided to the District upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Permittee shall maintain weekly records of the moisture content of the fuel. Such records shall be kept at the facility and made available for District inspection upon request for a period of 5 years. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. Fuel moisture content shall be checked daily, from representative fuel samples using method ASTM E871. [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.

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# ATTACHMENT B

Previous Title V Operating Permit

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# Permit to Operate

**FACILITY:** S-834

**EXPIRATION DATE:** 02/29/2008

**LEGAL OWNER OR OPERATOR:**  
**MAILING ADDRESS:**

SIERRA POWER CORPORATION  
PO BOX 10060  
TERRA BELLA, CA 93270

**FACILITY LOCATION:**

9000 ROAD 234  
TERRA BELLA, CA

**FACILITY DESCRIPTION:**

ELECTRICAL SERVICES

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

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

**Seyed Sadredin**  
Executive Director / APCO

**David Warner**  
Director of Permit Services

# San Joaquin Valley Air Pollution Control District

FACILITY: S-834-0-1

EXPIRATION DATE: 02/29/2008

## FACILITY-WIDE REQUIREMENTS

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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: SIERRA POWER CORPORATION  
Location: 9000 ROAD 234, TERRA BELLA, CA  
S-834-0-1 Sep 18 2009 8:37AM - SIONGCOJ



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 (11/15/01). 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 (10/31/01) 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 (10/31/01) 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 (10/31/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01) or Rule 8011 (11/15/01). [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 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On July 31, 2003, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
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 when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-834-1-1

EXPIRATION DATE: 02/29/2008

## EQUIPMENT DESCRIPTION:

FUEL SCREENING AND HANDLING SYSTEM SERVED BY A HUMIDIFIER FOGGER/SPRAY SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Fuel screening system shall consist of a Trommel screen, hopper, five (5) conveyors, and a humidifier-fogger/spray system to control emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions from fuel receiving shall be controlled by humidifier-fogger system and wind dust screen. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Whenever fuel receiving system is in operation, humidifier-fogger spray system shall be operated as necessary to maintain the moisture content of the biofuel at 20% or greater and shall be used to cover all exposed drop off points, screens, conveyors & other emissions points. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
5. Visible emissions shall be inspected quarterly under material and environmental conditions, where high emissions are expected. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 48 hours, a visible emissions test using EPA Method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 1070 and Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Permittee shall maintain weekly records of the moisture content of the fuel. Such records shall be kept at the facility and made available for District inspection upon request for a period of 5 years. [District Rule 1070 and 2520, 9.3.2, 9.4.2] Federally Enforceable Through Title V Permit
7. Records of types of fuel materials handled on a daily basis shall be maintained, retained on the premises for at least five years, and provided to the District upon request. [District Rules 1070 and 2520, 9.3.2, 9.4.2] Federally Enforceable Through Title V Permit
8. Fuel moisture content shall be checked daily, from representative fuel samples using method ASTM E871. [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: S-834-3-2

EXPIRATION DATE: 02/29/2008

## EQUIPMENT DESCRIPTION:

9.4 MW COGENERATION SYSTEM WITH 171.2 MMBTU/HR STAGED AIR BIOMASS-FIRED BOILER WITH FIRED HEAT RECOVERY STEAM GENERATOR WITH PEABODY LOW-NOX NATURAL GAS-FIRED BURNERS, FLUE GAS RECIRCULATION, AND AMMONIA INJECTION SYSTEM, EXHAUSTING TO MULTICLONES AND ELECTROSTATIC PRECIPITATOR

## PERMIT UNIT REQUIREMENTS

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1. Boiler and heat recovery steam generator exhausts shall vent through multicyclones and electrostatic precipitator (ESP) before being discharged to atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. ESP shall be equipped with automatic rapping system, induced draft exhaust fan, and 72' high by 61" diameter exhaust stack. [District NSR Rule] Federally Enforceable Through Title V Permit
3. ESP rapping frequency and duration shall be pre-programmed and identical for each location and only one rapping position shall be energized at any one time. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Exhaust stack shall be equipped with continuous emissions monitors (CEM) for NO<sub>x</sub>, CO, oxygen, opacity, and volumetric flowrate of exhaust. [District NSR Rule and Rule 4352, 5.5] Federally Enforceable Through Title V Permit
5. Continuous emission monitoring system shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [District Rules 1080 and Rule 4352, 5.5] Federally Enforceable Through Title V Permit
6. Fuels for combustor shall be limited to natural gas, sawmill/forest residue (consisting of sawdust, bark, chips, shavings, and clean dry construction wood waste), almond and walnut shells, peach and olive pits, vineyard prunings, and orchard prunings or chips. [District NSR Rule] Federally Enforceable Through Title V Permit
7. No plastic, rubber, tar paper, asphalt shingles, plaster, metals, painted or chemically treated wood products or wastes shall be burned in combustor. [District NSR Rule] Federally Enforceable Through Title V Permit
8. A daily record of the quantities and types of fuels burned in the combustor shall be maintained and submitted to the District quarterly. [District NSR Rule and Rule 4352, 6.2] Federally Enforceable Through Title V Permit
9. Nitrogen oxide emissions (as NO<sub>2</sub>) shall not exceed any of the following: 84 ppmvd @ 3% O<sub>2</sub> (0.108 lb/MMBtu), 408.8 lb/day, or 67.6 tons/year. The averaging for NO<sub>x</sub> lb/MMBtu limit shall be a 24-hr period between 12:00 am midnight to the following midnight. [District NSR Rule, Rules 4301, 5.2.2, 4352, 5.1 and 40 CFR 60.41b and 60.44b(d)] Federally Enforceable Through Title V Permit
10. Carbon monoxide emissions shall not exceed any of the following: 400 ppmvd @ 3% O<sub>2</sub> (0.314 lb/MMBtu) or 233.11 tons/year. The averaging for CO ppm limit shall be a 24-hr period between 12:00 am midnight to the following midnight. [District NSR Rules, District Rule 4352, 5.3 and 40 CFR 60 Subpart Db] Federally Enforceable Through Title V Permit
11. Particulate matter (PM<sub>10</sub>) concentration shall not exceed 0.016 gr/dscf corrected to 12% CO<sub>2</sub> as determined by CARB Method 5. [District NSR Rule and Rule 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Volatile organic compound emissions shall not exceed any of the following: 0.066 lb/MMBtu or 48.8 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Sulfur oxide emissions (as SO<sub>2</sub>) shall not exceed any of the following: 0.061 lb/MMBtu or 41.6 tons/year. [District NSR Rule and Rule 4301, 5.2.1 and 4801] Federally Enforceable Through Title V Permit
14. Source testing using the following test methods shall be done annually: NO<sub>x</sub> - EPA Method 7E or ARB Method 100, and EPA Method 19, CO - EPA Method 10 or ARB Method 100, O<sub>2</sub> - EPA Method 3 or 3A, or ARB Method 100, Stack Gas Flow Rate (velocity) - EPA Method 2, Stack Gas Moisture Content - EPA Method 4, and Fuel Heating Value - ASTM Method D2015 or E711. [District Rules 1081, 2520, 9.3.2 and 4352, 6.3] Federally Enforceable Through Title V Permit
15. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
17. Sierra Power Corporation shall maintain records of emissions and operational data for NO<sub>x</sub> (ppmv @ 3% O<sub>2</sub>, lb/MMBtu, lb/day and lb/year), CO (ppmv @ 3% O<sub>2</sub> and lb/year), electrical output (kW-hr) recorded on a 24-hour basis, exhaust gas stack flow, CFM), and opacity (percent). [District NSR Rule] Federally Enforceable Through Title V Permit
18. NO<sub>x</sub> and CO emissions shall be measured with annual source testing conducted by an independent testing laboratory using sample collection by an ARB certified testing laboratory and shall be witnessed by District, or witness authorized by the District. [District Rules 1081, 7.2, Rule 2520, 9.3.2 and 4352, 6.3 and 6.4 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
19. Source test emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(Amended December 16, 1993), of three thirty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
21. NO<sub>x</sub> and carbon monoxide daily emissions shall be measured by use of CEM data, fuel rate data and daily hours of operation data. A written record of the required compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit
22. SO<sub>x</sub> source testing shall be done annually using EPA method 5 or 8 or a continuous emissions analyzer in accordance with EPA method 6C. [District Rules 1081, 2520, 9.3.2, 9.4.2 and 4801 and Tulare County Rule 108.1] 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:** S-834-6-1

**EXPIRATION DATE:** 02/29/2008

**EQUIPMENT DESCRIPTION:**

ASH COLLECTION SYSTEM UTILIZING ENCLOSED AUGERS AND WATER MIST SERVING BIOFUEL BOILER (S-834-3)

## PERMIT UNIT REQUIREMENTS

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1. Discharge point of ash system shall be controlled by water spray to prevent visible emissions of 20% opacity or greater. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Visible emissions shall be inspected quarterly under material and environmental conditions, where high emissions are expected. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 48 hours, a visible emissions test using EPA Method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 1070 and 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: S-834-7-4

EXPIRATION DATE: 02/29/2008

SECTION: SW03 TOWNSHIP: 23S RANGE: 27E

## EQUIPMENT DESCRIPTION:

32 MMBTU/HR NATURAL GAS-FIRED BOILER WITH LOW NOX BURNER AND FLUE GAS RECIRCULATION;  
STANDBY SERVICE FOR BOILER S-834-3

## PERMIT UNIT REQUIREMENTS

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1. This boiler shall only be operated as a standby unit, when boiler S-834-3 is not operated. [District NSR Rule] Federally Enforceable Through Title V Permit
2. During normal operation, flue gas recirculation system shall be in operation at all times when boiler is firing. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Boiler firebox, convection section, and flue gas ductwork shall be gas-tight, with no detectable leaks. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Only natural gas purchased from a PUC regulated utility shall be used as fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Emission rates shall not exceed the following: PM10: 0.014 lb/MMBtu, NOx: 30 ppmv @ 3% O2, VOC: 0.003 lb/MMBtu and CO: 100 ppmv @ 3% O2. [District NSR Rule, 4301 and 4305] Federally Enforceable Through Title V Permit
6. Temperature readings of exhaust stack, windbox, and ambient air shall be recorded at 40%, 70% and 95% of firing rate, as recommended by manufacturer, to establish required FGR recirculation rate at these levels while demonstrating compliance with NOx and CO emission rates. [District NSR Rule, Rules 1081 and 4305] Federally Enforceable Through Title V Permit
7. The acceptable FGR rate shall be the minimum rate with which compliance with applicable NOx and CO emissions limits has been demonstrated through source testing at a similar firing rate. [District Rule 4305] Federally Enforceable Through Title V Permit
8. The FGR rate shall be determined at least on a weekly basis by measuring the stack temperature (Ts), windbox temperature (Tw), and ambient temperature (Ta), and using the following equation:  $FGR\ rate = \{(Tw - Ta)/(Ts - Ta)\} \times 100\%$ . [District Rule 4305] Federally Enforceable Through Title V Permit
9. If the FGR rate is less than the acceptable level, the permittee shall notify the District and take corrective action within one (1) hour after detection. If the FGR rate is not corrected promptly, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the lower FGR rate. [District Rule 4305] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the date and time of temperature measurements, the measured temperatures, boiler firing rate, and the calculated FGR rate. The records shall also include a description of any corrective action taken to maintain the FGR rate above the minimum acceptable rate. These records shall be retained at the facility for a period of no less than 5 years and shall be made available for District inspection upon request. [District Rule 4305] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



11. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
12. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.3.2 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
14. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub>. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas. [District Rule 2520, 9.3.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit
15. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. When this unit has been operated for 720 hours in a 12 month period, source testing shall be performed for NO<sub>x</sub> (ppmv) according to EPA Method 7E (or ARB Method 100), stack gas oxygen by EPA Method 3 or 3A (or ARB Method 100), and NO<sub>x</sub> emission rate (heat input basis) by EPA Method 19. If compliance is demonstrated on 2 consecutive annual tests, unit shall be tested not less than once every 36 months. [District Rule 4305, 6.2.2, 6.2.4-7, & 6.3.1 and 4351, 6.2.2 & 6.2.4-7, & 6.3] Federally Enforceable Through Title V Permit
17. Nitrogen oxide (NO<sub>x</sub>) emission concentrations in ppmv shall be referenced at dry stack gas conditions, and shall be calculated to 3.00 percent by volume stack gas oxygen and averaged over 60 minutes, and lb/MMBtu rates shall be calculated as lb NO<sub>2</sub>/MMBtu of heat input (hhv). [District Rule 4305, 5.0, 8.2 and 4351, 8.1] Federally Enforceable Through Title V Permit
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992), 4305, sections 4.2, 5.1, 5.5.1, 5.5.2, 6.1.1, 6.2 (except 6.2.3), 6.3.1, 6.3.2, and 8.1 (Last Amended December 17, 1992), and 4351, sections 4.2, 5.2.2, 6.1.1, 6.2, and 8.1 (Last Amended October 19, 1995). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera) 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
20. NO<sub>x</sub> and CO emissions shall be measured with annual source testing conducted by an independent testing laboratory, sample collection by ARB certified testing laboratory and shall be witnessed by District, or witness authorized by the District. [District Rule 1081, Tulare County Rule 108.1 and Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081(Amended December 16, 1993), of three thirty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [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: S-834-9-1

EXPIRATION DATE: 02/29/2008

SECTION: SW03 TOWNSHIP: 23S RANGE: 27E

## EQUIPMENT DESCRIPTION:

DORMANT 33.6 MMBTU/HR NATURAL GAS FIRED HURST BOILER (MODEL S2-X 700-150) WITH INDUSTRIAL COMBUSTION BURNER (MODEL LNDG-336-P) AND FLUE GAS RECIRCULATION.

## PERMIT UNIT REQUIREMENTS

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1. This unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520 section 9.0 for this permit unit. [District Rule 2520, Section 9.0] Federally Enforceable Through Title V Permit
2. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District NSR Rule and 4305] Federally Enforceable Through Title V Permit
3. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in condition 5 below. [District NSR Rule] Federally Enforceable Through Title V Permit
4. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
5. The fuel supply line shall be physically disconnected from the emission unit. [District Rule 2080 and 4305] Federally Enforceable Through Title V Permit
6. This boiler shall only be operated as a standby unit, when fuel cogeneration system S-834-3 is not in operation. [District NSR Rule] Federally Enforceable Through Title V Permit
7. 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
8. Flue gas recirculation system shall be in operation at all times when boiler is firing. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Boiler firebox, convection section, and flue gas ductwork shall be gas-tight, with no detectable leaks. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Only natural gas purchased from a PUC regulated utility shall be used as fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Emission rates shall not exceed the following: PM10: 0.003 lb/MMBtu, SOx (as SO2): 0.001 lb/MMBtu, NOx (as NO2): 30 ppmv @ 3% O2 or 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu and CO: 47.0 ppmv or 0.035 lb/MMBtu. [District NSR Rule, 4201, 3.1, 4301, 5.1, 5.2.1 and 5.2.3 and Rule 4305, 5.1, 5.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Annual source testing shall be performed for NO<sub>x</sub> (ppmv) according to EPA Method 7E (or ARB Method 100), stack gas oxygen by EPA Method 3 or 3A (or ARB Method 100), and NO<sub>x</sub> emission rate (heat input basis) by EPA Method 19. Gaseous fired units demonstrating compliance on 2 consecutive annual tests shall be tested not less than once every 36 months. Annual testing shall resume if any such test fails to show compliance. [District Rules 4305, 6.2.2, 6.2.4-7, & 6.3.1 and 4351, 6.2.2 & 6.2.4-7, & 6.3] Federally Enforceable Through Title V Permit
13. Source testing to demonstrate compliance with NO<sub>x</sub> and CO emission limits shall be conducted not less than once every 12 months if unit has been operated in previous 12 months, except as provided below. [District Rule 4305] Federally Enforceable Through Title V Permit
14. Source testing to demonstrate compliance with NO<sub>x</sub> and CO emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
15. If permittee fails any compliance demonstration for NO<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305 and 4351] Federally Enforceable Through Title V Permit
16. Compliance demonstration (source testing) shall be by District witnessed or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
19. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351 and Tulare County Rule 108.1] Federally Enforceable Through Title V Permit
20. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rule and Rule 4305] Federally Enforceable Through Title V Permit
21. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NO<sub>x</sub> and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305] Federally Enforceable Through Title V Permit
22. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305] Federally Enforceable Through Title V Permit
23. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve setting is not returned to within the acceptable range within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District Rule 4305] Federally Enforceable Through Title V Permit
24. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility for a period of no less than 2 years and shall be made available for District inspection upon request. [District Rule 4305] Federally Enforceable Through Title V Permit
25. Formerly permit #S-1111-24-1.

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-834-10-1

**EXPIRATION DATE:** 02/29/2008

**EQUIPMENT DESCRIPTION:**

FUEL HANDLING SYSTEM CONSISTING OF TWO SILOS, ONE HOG UNIT, SCREENS, AND CONVEYORS SERVED BY A HUMIDIFIER FOGGER SPRAY SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions from fuel handling system shall be controlled by humidifier-fogger spray system. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Whenever fuel handling system is in operation, humidifier-fogger spray system shall be operated as necessary to maintain the moisture content of the biofuel at 20% or greater and shall be used to cover all exposed drop off points, conveyors & other emissions points. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Visible emissions shall be inspected quarterly under material and environmental conditions where high emissions are expected. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 48 hours, a visible emissions test using EPA Method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 1070 and Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Records of types of fuel materials handled on a daily basis shall be maintained, retained on the premises for at least five years, and provided to the District upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Permittee shall maintain weekly records of the moisture content of the fuel. Such records shall be kept at the facility and made available for District inspection upon request for a period of 5 years. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. Fuel moisture content shall be checked daily, from representative fuel samples using method ASTM E871. [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.

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# ATTACHMENT C

District Rule 4306 Stringency Analysis

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**Comparison of the latest amended version (amended October 16, 2008) of District Rule 4306 and the current SIP approved version, adopted September 18, 2003**

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<b>APPLICABILITY</b>		
This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a total rated heat input greater than 5 million Btu per hour.	X	X
<b>EXEMPTIONS</b>		
<p>The requirements of this rule shall not apply to:</p> <p>Solid fuel fired units.</p> <p>Dryers and glass melting furnaces.</p> <p>Kilns and smelters where the products of combustion come into direct contact with the material to be heated.</p> <p>Unfired or fired waste heat recovery boilers that are used to recover or augment heat from the exhaust of combustion turbines or internal combustion engines.</p> <p>The requirements of Sections 5.1.1 and 5.1.2 shall not apply to a unit when burning any fuel other than PUC quality natural gas during PUC quality natural gas curtailment provided all of the following conditions are met:</p> <ul style="list-style-type: none"> <li>• Fuels other than PUC quality natural gas are burned no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing, as limited by Permit to Operate.</li> <li>• NOx emission shall not exceed 150 ppmv or 0.215 lb/MMBtu. Demonstration of compliance with this limit shall be made by either source testing, continuous emission monitoring system (CEMS), an APCO approved Alternate Monitoring System, or an APCO approved portable NOx analyzer.</li> </ul>	X	X
<b>REQUIREMENTS</b>		
<p><u>NOx and CO Limits (Standard Option)</u></p> <p>Units with a rated heat input equal to or less than 20.0 MMBtu/hour, except for Categories C, D, E, F, G, H, and I units</p> <p>Gaseous Fuel: 15 ppmv or 0.018 lb-NOx/MMBtu; 400 ppmv-CO</p> <p>Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO</p>	X	X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<u>NOx and CO Limits (Standard Option)</u> Units with a rated heat input greater than 20.0 MMBtu/hour, except for Categories C, D, E, F, G, H, and I units Gaseous Fuel: 9 ppmv or 0.011 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Standard Option)</u> Oilfield Steam Generators Gaseous Fuel: 15 ppmv or 0.018 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Standard Option)</u> Refinery units with a rated heat input greater than 5 MMBtu/hr up to 65 MMBtu/hr Gaseous Fuel: 30 ppmv or 0.036 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Standard Option)</u> Refinery units with a rated heat input greater than 65 MMBtu/hr up to 110 MMBtu/hr Gaseous Fuel: 25 ppmv or 0.031 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Standard Option)</u> Refinery units with a rated heat input greater than 110 MMBtu/hr Gaseous Fuel: 5 ppmv or 0.0062 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Standard Option)</u> Load-following units Gaseous Fuel: 15 ppmv or 0.018 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<u>NOx and CO Limits (Standard Option)</u> Units limited by a Permit to Operate to an annual heat input of 9 billion Btu/year to 30 billion Btu/year Gaseous Fuel: 30 ppmv or 0.036 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Standard Option)</u> Units in which the rated heat input of each burner is less than or equal to 5 MMBtu/hr but the total rated heat input of all the burners in a unit is greater than 5 MMBtu/hr, as specified in the Permit to Operate, and in which the products of combustion do not come in contact with the products of combustion of any other burner. Gaseous Fuel: 30 ppmv or 0.036 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO	X	X
<u>NOx and CO Limits (Enhanced Option)</u> Units with a rated heat input equal to or less than 20.0 MMBtu/hour, except for Categories C, D, E, F, G, H, and I units Gaseous Fuel: 9 ppmv or 0.011 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO		X
<u>NOx and CO Limits (Enhanced Option)</u> Units with a rated heat input greater than 20.0 MMBtu/hour, except for Categories C, D, E, F, G, H, and I units Gaseous Fuel: 6 ppmv or 0.007 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO		X
<u>NOx and CO Limits (Enhanced Option)</u> Load-following units Gaseous Fuel: 9 ppmv or 0.011 lb-NOx/MMBtu; 400 ppmv-CO Liquid Fuel: 400 ppmv or 0.052 lb-NOx/MMBtu; 400 ppmv-CO		X



District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>When a unit is operated on combinations of gaseous fuel and liquid fuel, the NOx limit shall be the heat input weighted average of the applicable limits specified in Sections 5.1.1, as calculated by the following equation:</p> $\text{WeightedAverageLimit} = \frac{(\text{NOx limit for gaseous fuel} \times G) + (\text{NOx limit for liquid fuel} \times L)}{G + L}$ <p>Where: G = annual heat input from gaseous fuel L = annual heat input from liquid fuel</p>	X	X
<p>For each unit that is limited to less than 9 billion Btu per calendar year heat input pursuant to a Permit to Operate, the operator shall comply with the requirement of Section 7.4 and one of the following:</p> <ul style="list-style-type: none"> <li>• tune the unit at least twice per calendar year, (from four to eight months apart) by a qualified technician in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown; or</li> <li>• operate the unit in a manner that maintains exhaust oxygen concentrations at less than or equal to 3.00 percent by volume on a dry basis; or</li> <li>• operate the unit in compliance with the applicable emission limits of Sections 5.1.1 or 5.1.2.</li> </ul>	X	X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>The applicable emission limits of Sections 5.1, 5.2.2 and 5.2.3 shall not apply during start-up or shutdown provided an operator complies with the requirements specified below.</p> <ul style="list-style-type: none"> <li>• The duration of each start-up or each shutdown shall not exceed two hours, except as provided in Section 5.3.3.</li> <li>• The emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up or shutdown.</li> <li>• An operator may submit an application for a Permit to Operate condition to allow more than two hours for each start-up or each shutdown provided the operator meets all of the following conditions: <ul style="list-style-type: none"> <li>a. The maximum allowable duration of start-up or shutdown will be determined by the APCO. The allowable duration of start-up shall not exceed twelve hours and the allowable duration of shutdown shall not exceed nine hours.</li> <li>b. The APCO will only approve start-up or shutdown duration longer than two hours when the application clearly identifies the control technologies or strategies to be utilized; and describes what physical conditions prevail during start-up or shutdown periods that prevent the controls from being effective; and provides a reasonably precise estimate as to when the physical conditions will have reached a state that allows for the effective control of emissions.</li> </ul> </li> <li>• The operator shall submit to the APCO any information deemed necessary by the APCO to determine the appropriate length of start-up or shutdown. The information shall include a detailed list of activities to be performed during start-up or shutdown and a reasonable explanation for the length of time needed to complete each activity; and a description of the material process flow rates and system operating parameters, etc., the operator plans to evaluate during the process optimization; and an explanation of how the activities and process flow affect the operation of the emissions control equipment; and basis for the requested additional duration of start-up or shutdown.</li> </ul>	X	X
<ul style="list-style-type: none"> <li>▪ Permit to Operate modification solely to include start-up or shutdown conditions shall be exempt from the BACT and offset requirements of Rule 2201 (New and Modified Stationary Source Review Rule) for applications for Authority to Construct that are submitted and are approved by the APCO by the applicable "full compliance" schedule specified in Section 7.1 Table 2</li> </ul>	X	

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<ul style="list-style-type: none"> <li>▪ Permit to Operate (PTO) modifications solely to include start-up or shutdown conditions may be exempt from Best Available Control Technology (BACT) and emission offset requirements if the PTO modifications meet the requirements of Rule 2201 (New or Modified Stationary Source Review Rule) Section 4.2 (BACT Exemptions) and Rule 2201 Section 4.6 (Offset Exemptions).</li> </ul>		X
<b>MONITORING PROVISIONS</b>		
<p>The operator of any unit which simultaneously fires gaseous and liquid fuels shall install and maintain an operational non-resettable, totalizing mass or volumetric flow meter in each fuel line to each unit. Volumetric flow measurements shall be periodically compensated for temperature and pressure.</p>	X	X
<p>The operator of any unit subject to the applicable emission limits in Sections 5.1 shall install and maintain an operational APCO approved Continuous Emissions Monitoring System (CEMS) for NO<sub>x</sub>, CO, and oxygen, or implement an APCO-approved Alternate Monitoring System. An APCO approved CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13 (except subsection h), 40 CFR Part 60 Appendix B (Performance Specifications) and 40 CFR Part 60 Appendix F (Quality Assurance Procedures, and applicable provisions of Rule 1080 (Stack Monitoring). An APCO approved Alternate Monitoring System shall monitor one or more of the following: periodic NO<sub>x</sub> and CO exhaust emission concentrations, periodic exhaust oxygen concentration, flow rate of reducing agent added to exhaust, catalyst inlet and exhaust temperature, catalyst inlet and exhaust oxygen concentration, periodic flue gas recirculation rate, other operational characteristics.</p>	X	X
<p>For units subject to the requirements of Section 5.2.1 or 5.2.2, the operator shall monitor, at least on a monthly basis, the operational characteristics recommended by the manufacturer and approved by the APCO.</p>	X	X
<p>The operator of any Category H unit listed in Section 5.1.1 Table 1 and any unit subject to Section 5.2.1 or 5.2.2 shall install and maintain an operational non-resettable, totalizing mass or volumetric flow meter in each fuel line to each unit. Volumetric flow measurements shall be periodically compensated for temperature and pressure. A master meter, which measures fuel to all units in a group of similar units, may satisfy these requirements if approved by the APCO in writing. The cumulative annual fuel usage may be verified from utility service meters, purchase or tank fill records, or other acceptable methods, as approved by the APCO.</p>	X	X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>The APCO shall not approve an alternative monitoring system unless it is documented that continued operation within ranges of specified emissions-related performance indicators or operational characteristics provides a reasonable assurance of compliance with applicable emission limits. The operator shall source test over the proposed range of surrogate operating parameters to demonstrate compliance with the applicable emission standards.</p>		X
<b>COMPLIANCE DETERMINATION</b>		
<p>The operator of any unit shall have the option of complying with either the applicable heat input (lb/MMBtu) emission limits or the concentration (ppmv) emission limits specified in Section 5.1. The emission limits selected to demonstrate compliance shall be specified in the source test proposal pursuant to Rule 1081 (Source Sampling).</p>	X	X
<p>All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0.</p>	X	
<p>All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Unless otherwise specified in the Permit to Operate no determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0.</p>		X
<p>All Continuous Emissions Monitoring System (CEMS) emissions measurements shall be averaged over a period of 15 consecutive minutes to demonstrate compliance with the applicable emission limits of this rule. Any 15-consecutive-minute block average CEMS measurement exceeding the applicable emission limits of this rule shall constitute a violation of this rule.</p>	X	X
<p>For emissions monitoring pursuant to Sections 5.4.2, 5.4.2.1, and 6.3.1 using a portable NO<sub>x</sub> analyzer as part of an APCO approved Alternate Emissions Monitoring System, emission readings shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15-consecutive-minute sample reading or by taking at least five (5) readings evenly spaced out over the 15-consecutive-minute period.</p>	X	X

<b>District Rule 4306 Requirements</b>	<b>Adopted September 18, 2003</b>	<b>Amended October 16, 2008</b>
For emissions source testing performed pursuant to Section 6.3.1 for the purpose of determining compliance with an applicable standard or numerical limitation of this rule, the arithmetic average of three (3) 30-consecutive-minute test runs shall apply. If two (2) of three (3) runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit.	X	X
<b>RECORDKEEPING</b>		
The records required by Sections 6.1.1 through 6.1.4 shall be maintained for five calendar years and shall be made available to the APCO upon request. Failure to maintain records or information contained in the records that demonstrate noncompliance with the applicable requirements of this rule shall constitute a violation of this rule.	X	X
The operator of any unit operated under the exemption of Section 4.2 shall monitor and record for each unit the cumulative annual hours of operation on each fuel other than natural gas during periods of natural gas curtailment and equipment testing. The NO <sub>x</sub> emission concentration (in ppmv or lb/MMBtu) for each unit that is operated during periods of natural gas curtailment shall be recorded. Failure to maintain records required by Section 6.1.1 or information contained in the records that demonstrates noncompliance with the conditions for exemption under Section 4.2 will result in loss of exemption status. On and after the applicable compliance schedule specified in Section 7.0, any unit losing an exemption status shall be brought into full compliance with this rule as specified in Section 7.3.	X	X
The operator of any Category H unit listed in Section 5.1.1 Table 1 and any unit that is subject to the requirements of Section 5.2 shall record the amount of fuel use at least on a monthly basis for each unit, or for a group of units as specified in Section 5.4.4. On and after the applicable compliance schedule specified in Section 7.0, in the event that such unit exceeds the applicable annual heat input limit specified in Sections 5.1.1 Table 1 Category H and Section 5.2, the unit shall be brought into full compliance with this rule as specified in Section 7.4.	X	X
The operator of any unit subject to Section 5.2.1 or Section 6.3.1 shall maintain records to verify that the required tune-up and the required monitoring of the operational characteristics of the unit have been performed.	X	X
The operator performing start-up or shutdown of a unit shall keep records of the duration of start-up or shutdown.	X	X
<b>TEST METHODS</b>		

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>The following test methods shall be used unless otherwise approved by the APCO and EPA.</p> <p>Fuel hhv shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels.</p> <p>Oxides of nitrogen (ppmv) - EPA Method 7E, or ARB Method 100.</p> <p>Carbon monoxide (ppmv) - EPA Method 10, or ARB Method 100.</p> <p>Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.</p> <p>NOx Emission Rate (Heat Input Basis) - EPA Method 19.</p> <p>Stack gas velocities - EPA Method 2.</p> <p>Stack gas moisture content - EPA Method 4.</p>	X	X
<b>COMPLIANCE TESTING</b>		
<p>Each unit subject to the requirements in Sections 5.1 or 5.2.3 shall be source tested to determine compliance with the applicable emission limits at least once every 12 months, (no more than 30 days before or after the required annual source test date). Units that demonstrate compliance on two consecutive 12-month source tests may defer the following 12-month source test for up to 36 months (no more than 30 days before or after the required 36-month source test date). During the 36-month source testing interval, the operator shall tune the unit in accordance with the provisions of Section 5.2.1, and shall monitor, on a monthly basis, the unit's operational characteristics recommended by the manufacturer to ensure compliance with the applicable emission limits specified in Sections 5.1 or 5.2.3. Tune-ups required by Sections 5.2.1 and 6.3.1 do not need to be performed for units that operate and maintain an APCO approved CEMS or an APCO approved Alternate Monitoring System where the applicable emission limits are periodically monitored. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits specified in Sections 5.1 or 5.2.3, the source testing frequency shall revert to at least once every 12 months. Failure to comply with the requirements Section 6.3.1, or any source test results that exceed the applicable emission limits in Sections 5.1 or 5.2.3 shall constitute a violation of this rule.</p>	X	X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>In lieu of compliance with Section 6.3.1, compliance with the applicable emission limits in Sections 5.1 or 5.2.3 shall be demonstrated by submittal of annual emissions test results to the District from a unit or units that represents a group of units, provided All units in the group are initially source tested. The emissions from all test runs from units within the group are less than 90% of the permitted value, and the emissions do not vary greater than 25% from the average of all test runs; and all units in a group are similar in terms of rated heat input, make and series, operational conditions, fuel used, and control method. No unit with a rated heat input greater than 100 MMBtu shall be considered as part of the group; and the group is owned by a single owner and is located at a single stationary source; and selection of the representative unit(s) is approved by the APCO prior to testing; and the number of representative units source tested shall be at least 30% of the total number of units in the group. The representative tests shall rotate each year so that within three years all units in the group have been tested at least once. All units in the group shall have received the similar maintenance and tune-up procedures as the representative unit(s) as listed in the Permit to Operate. The operator shall submit to the APCO the specific maintenance procedures to be performed on each unit that will be included in the group for representative testing. Such maintenance procedures shall be specified in the Permit to Operate for units that are included in the group for representative testing. Any maintenance work on a unit which has no effect on emissions standards and which is not specified in the maintenance procedures shall be submitted to the APCO for approval before such unit can be included as part of the group for representative testing. Any unit that necessitates any maintenance work which has an effect on emission standards and is beyond the maintenance procedures identified in the Permit to Operate, shall not be included as part of the group for representative testing. The unit shall be source tested in accordance with the provisions of Section 6.3.1; and should any of the representative units exceed the required emission limits, each of the units in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested units being in violation of this rule. After compliance with the requirements of Section 6.3.2.7 has been demonstrated, subsequent source testing shall be performed pursuant to Sections 6.3.1 or 6.3.2.</p>	X	X
<b>EMISSION CONTROL PLAN</b>		

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>The operator of any unit shall submit to the APCO for approval an Emissions Control Plan according to the compliance schedule in Section 7.0. For each unit, the plan shall contain the following: Permit to Operate number, fuel type and hhv, annual fuel consumption (Btu/yr), current emission level, including method used to determine emission level, and plan of actions, including a schedule of increments of progress, which will be taken to satisfy the requirements of Section 5.0 and the compliance schedule in Section 7.0.</p>	X	
<p>The operator of any unit shall submit to the APCO for approval an Emissions Control Plan according to the compliance schedule in Section 7.0. For each unit, the plan shall contain the following: Permit to Operate number, fuel type and hhv, annual fuel consumption (Btu/yr), current emission level, including method used to determine emission level, NOx limit to be satisfied, either Standard Option or Enhanced Option, and plan of actions, including a schedule of increments of progress, which will be taken to satisfy the requirements of Section 5.0 and the compliance schedule in Section 7.0.</p>		X
<p>The operator shall submit to the APCO for approval, as part of the ECP, a list of units which are to be designated as load-following units. The APCO shall only designate, as load-following, units for which the following information has been provided to demonstrate that the units qualify as load-following: technical data such as steam demand charts or other information to demonstrate the normal operational load fluctuations and requirements of the unit, technical data about the operational response range of an ultra low NOx burner system(s) operating at 9 ppmv NOx, and technical data demonstrating that the unit(s) are designed and operated to optimize the use of base-loaded units in conjunction with the load-following unit(s).</p>	X	X
<b>CALCULATIONS</b>		
<p>All ppmv emission limits specified in Section 5.1 are referenced at dry stack gas conditions and 3.00 percent by volume stack gas oxygen. Emission concentrations shall be corrected to 3.00 percent oxygen as follows:</p> $[\text{ppm NOx}]_{\text{corrected}} = \frac{17.95\%}{20.95\% - [\%O_2]_{\text{measured}}} \times [\text{ppm NOx}]_{\text{measured}}$ $[\text{ppm CO}]_{\text{corrected}} = \frac{17.95\%}{20.95\% - [\%O_2]_{\text{measured}}} \times [\text{ppm CO}]_{\text{measured}}$ <p>All pounds per million Btu NOx emission rates shall be calculated as pounds of nitrogen dioxide per million Btu of heat input (hhv).</p>	X	X
<b>ALTERNATIVE EMISSION CONTROL</b>		



District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>The single owner of two or more units may comply with Section 5.1 by controlling units in operation at the same stationary source, or at two contiguous stationary sources, to achieve an aggregated NOx emission factor no higher than 90 percent of the aggregated NOx emission factor limit that would result if each unit in operation were individually in compliance with the applicable NOx emission limits in Section 5.1. An operator that is subject to the AECP requirements below shall also comply with the applicable requirements of Sections 5.0, 6.0, 7.0 and 8.0.</p>	X	X
<p>A unit not subject to Section 5.1 or Section 5.2.3 is not eligible for inclusion in an AECP.</p>	X	X
<p>No unit subject to Sections 5.2.1 or 5.2.2 shall be included in an AECP.</p>	X	X
<p>Aggregated NOx emission factor limit: the sum of the NOx emissions, over seven consecutive calendar days, that would result if all units in the AECP were in compliance with the lb/MMBtu limits in Section 5.1 and operating at their actual firing rates, divided by the sum of the heat input of all units in the AECP over seven consecutive calendar days. Aggregated emission factor limit is calculated as:</p> $L_A = \frac{\sum L_i F_i}{\sum F_i}$ <p>where: <math>L_A</math> is the aggregated NOx emission factor limit (lb/MMBtu)</p> <p><math>L_i</math> is the applicable NOx emission factor limit (lb/MMBtu) specified in Section 5.1.1 Table 1 or Section 5.1.2 for each category of unit in the AECP,</p> <p><math>F_i</math> is the total heat input (hhv basis) of fuel (MMBtu) combusted in each unit during seven consecutive calendar days, and</p> <p><math>i</math> identifies each unit in the AECP.</p>	X	X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
<p>Aggregated NOx emission factor: the sum of the actual NOx emissions during seven consecutive calendar days from all units in the AECF, divided by the sum of the heat input of all units in the AECF during seven consecutive calendar days. The aggregated emission factor is calculated as:</p> $E_A = \frac{\sum E_i F_i}{\sum F_i}$ <p>where: <math>E_A</math> is the aggregated NOx emission factor (lb/MMBtu),</p> <p><math>E_i</math> is the NOx emission factor (lb/MMBtu) for each unit in the AECF, established and verified by source testing, or continuous emission monitors,</p> <p><math>F_i</math> is the total heat input (hhv basis) of fuel (MMBtu) combusted in each unit during seven consecutive calendar days, and</p> <p><math>i</math> identifies each unit in the AECF.</p>	X	X
<p>9.6.1 The AECF shall: Contain all data, records, and other information necessary to determine eligibility of the units for alternative emission control, including but not limited to a list of units subject to alternative emission control, daily average and maximum hours of utilization for each unit, rated heat input of each unit, and fuel type for each unit. Present the methodology for recordkeeping and reporting required by Sections 9.6.4 and 9.6.5. Demonstrate that the aggregated emission factor will meet the requirements of Section 9.5. Demonstrate that the schedule for achieving AECF NOx emission levels is at least as expeditious as the schedule if applicable units were to comply individually with the applicable emission levels in Section 5.1 and the increments of progress in Section 7.0.</p>	X	
<p>9.6.1 The AECF shall contain all data, records, and other information necessary to determine eligibility of the units for alternative emission control, including but not limited to a list of units subject to alternative emission control, daily average and maximum hours of utilization for each unit, rated heat input of each unit, and fuel type for each unit. Present the methodology for recordkeeping and reporting required by Sections 9.6.4 and 9.6.5. Specify which NOx limit, either Standard Option or Enhanced Option, will be satisfied by the units under the AECF. Demonstrate that the aggregated emission factor will meet the requirements of Section 9.5. Demonstrate that the schedule for achieving AECF NOx emission levels is at least as expeditious as the schedule if applicable units were to comply individually with the applicable emission levels in Section 5.1 and the increments of progress in Section 7.0.</p>		X

District Rule 4306 Requirements	Adopted September 18, 2003	Amended October 16, 2008
Owners shall demonstrate APCO approval of the AECP prior to applying for a modification to said AECP.	X	X
<p>In addition to the records kept pursuant to Section 6.1, the operator shall maintain records, on a daily basis, of the parameters needed to demonstrate compliance with the applicable NOx emission limits when operating under the AECP. The records shall be retained for at least five years and shall be made available to the APCO upon request. The records shall include, but are not limited to, the following:</p> <p>For each unit included in the AECP the owner shall maintain the following records for each day the fuel type and amount used for each unit (<math>F_i</math>), the actual emission factor for each unit (<math>E_i</math>), the total emissions for all units (<math>\sum E_i F_i</math>), the aggregated emission factor (<math>E_A</math>), the aggregated emission factor limit (<math>L_A</math>), and any other parameters needed to demonstrate daily compliance with the applicable NOx emissions when operating the units under the AECP.</p>	X	X
<p>Notifications of any violation pursuant to Section 9.5 shall include: name and location of facility, list of applicable units, cause and expected duration of exceedance, the amount of excess emissions, and proposed corrective actions and schedule.</p>	X	X

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# ATTACHMENT D

Detailed Facility List

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**Detailed Facility Report**  
For Facility=834 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>SIERRA POWER CORPORATION</b>	<b>FAC #</b>	<b>S 834</b>	<b>TYPE</b>	<b>TitleV</b>	<b>EXPIRE ON:</b>	<b>02/29/2008</b>
<b>9000 ROAD 234</b>	<b>STATUS:</b>	<b>A</b>	<b>TOXIC ID:</b>	<b>50237</b>	<b>AREA</b>	<b>21 /</b>
<b>TERRA BELLA, CA</b>	<b>TELEPHONE:</b>	<b>(559) 535-5325</b>			<b>INSP. DATE:</b>	<b>04/10</b>

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-834-1-1	electrical power generation	999-99	1	0.00	0.00	A	FUEL SCREENING AND HANDLING SYSTEM SERVED BY A HUMIDIFIER FOGGER/SPRAY SYSTEM
S-834-3-2	9400 kW	3020-08A D	1	3,062.00	3,062.00	A	9.4 MW COGENERATION SYSTEM WITH 171.2 MMBTU/HR STAGED AIR BIOMASS-FIRED BOILER WITH FIRED HEAT RECOVERY STEAM GENERATOR WITH PEABODY LOW-NOX NATURAL GAS-FIRED BURNERS, FLUE GAS RECIRCULATION, AND AMMONIA INJECTION SYSTEM, EXHAUSTING TO MULTICLONES AND ELECTROSTATIC PRECIPITATOR
S-834-6-1	electrical power generation	999-99	1	0.00	0.00	A	ASH COLLECTION SYSTEM UTILIZING ENCLOSED AUGERS AND WATER MIST SERVING BIOFUEL BOILER (S-834-3)
S-834-7-4	32 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	32 MMBTU/HR NATURAL GAS-FIRED BOILER WITH LOW NOX BURNER AND FLUE GAS RECIRCULATION; STANDBY SERVICE FOR BOILER S-834-3
S-834-9-1	33.6 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	DORMANT 33.6 MMBTU/HR NATURAL GAS FIRED HURST BOILER (MODEL S2-X 700-150) WITH INDUSTRIAL COMBUSTION BURNER (MODEL LNDG-336-P) AND FLUE GAS RECIRCULATION.
S-834-10-1	electrical power generation	999-99	1	0.00	0.00	A	FUEL HANDLING SYSTEM CONSISTING OF TWO SILOS, ONE HOG UNIT, SCREENS, AND CONVEYORS SERVED BY A HUMIDIFIER FOGGER SPRAY SYSTEM

Number of Facilities Reported: 1